

# SEQUENCE PROTOCOL

<110> metaGen

<120> Detection of Differential Gene Expressions

<130> 21914PDE

<140> 100 04 102.7-41

<141> 2000-01-31

<160> 885

<170> PatentIn Ver. 2.1

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accagcgccct agggctggac tacgaggaac gagtgttgcc gtccattgtc aacgaggtgc 300  
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<210> 27  
<211> 421  
<212> DNA  
<213> Homo sapiens

<400> 27  
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n 421

<210> 28  
<211> 426  
<212> DNA  
<213> Homo sapiens

<400> 28  
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attcctggaa acagttgac cagagctggc tgctagtggg gcgaccttac ccaagtttga 180  
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gtgtgacaga gcaggattta ttcaagatac tagcctttat cctctatgga ggaagttaaa 360  
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gaacta 426

<210> 29  
<211> 558  
<212> DNA  
<213> Homo sapiens

<400> 29  
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aagcgtcgtg	gtggagcaat	aaattctaga	caagctcaga	agcgaactcg	ggaagcaacc	300
tccacccctg	agatctccct	ggaagcagaa	cccatagaac	tctgtggaac	tgctggagat	360
gaaatttgtg	acctcaattg	tgaatcttta	gagcctgttg	tggttgatct	gactcacaat	420
gactctgttg	tgattgttga	cgaaagaaga	agaccaagga	ggaatgctag	gaggctgccc	480
caggaccatg	ctgacagctg	tgtggtgagc	agtgacgatg	aggagtctgc	cagggacaga	540
gacgtatatg	tgactaac					558

<210> 30  
 <211> 477  
 <212> DNA  
 <213> Homo sapiens

<400> 30						
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ttctcttact	taaactctga	aaacaacaga	aactttgtct	tcctactctt	acattctaaa	180
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tcctagcttg	agttgcactg	catgtracnt	gtgcatcttg	ttctctccat	ttaatgctgt	300
actgttcttg	tgagctctga	gggactatct	tgagagatgt	aatggaagga	aagcgtgggt	360
ttaatctcgg	tactgcttaa	gacagtantt	ccataatcaa	tgatgggttc	atagagaaac	420
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<210> 31  
 <211> 550  
 <212> DNA  
 <213> Homo sapiens

<400> 31						
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agaaaaatct	tttgcccttca	aaagaaaacaa	ttgaacaaga	gaagcaagct	ggcgaatcgt	180
aatgaggcga	gcgcgcgaat	atgcactgta	cattccacga	gcattgacct	cttatttttac	240
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taattarttg						550

<210> 32  
 <211> 623  
 <212> DNA  
 <213> Homo sapiens

<400> 32						
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atgggaggtc	ccctgggagt	gggcctgggt	cttgtctttt	gcgtcttctc	tggggtctat	360
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<210> 33  
 <211> 464  
 <212> DNA  
 <213> Homo sapiens

<400> 33  
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gtgcgtractt cattgctcaa ttcaattaa gttctctattt ttaatttact actaaatcct 180  
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ttactttaat accttttttag ggtttgtctga agatggcggg atataggctg aattagcaag 360  
agatgggtgag gtagagcggg gtttatccga ttatagaaca ggctccctta gatggatata 420  
aagtaaccgc aagtcctttg aagttttaag cnatgggctag tagt 464

<210> 34  
<211> 308  
<212> DNA  
<213> Homo sapiens

<400> 34  
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gggaagccca atttccagta ggattgcccgg ttttgaattc ttttcccaaa agcnaaatng 300  
agtttnac 308

<210> 35  
<211> 435  
<212> DNA  
<213> Homo sapiens

<400> 35  
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cttcaaagta tgccagagaa tacaatccaa ttactgtcta caattcatag aattngtcag 180  
tgttttcttg agacgctgag gttcactgtt ggcagtttcc aagtggccgc atgtgctgct 240  
cagaaaggcc agcgnagach agctgcccgg aagaactttc actgctggaa aactgctccg 300  
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ctttgcccac ccagg 435

<210> 36  
<211> 505  
<212> DNA  
<213> Homo sapiens

<400> 36  
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<210> 37  
<211> 451  
<212> DNA  
<213> Homo sapiens

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tgtttttatc aggttaggta attttcacia aagtgtcaag agaacaaaa aaaggggaga 180  
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aaagtattcc taaaagcatg atcggacact catacaacac aacaaaaaag acagctttac 300
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naaaatctgg aatttttttt cacactccaa n 451

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<210> 38  
 <211> 245  
 <212> DNA  
 <213> Homo sapiens

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<400> 38
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<210> 39  
 <211> 403  
 <212> DNA  
 <213> Homo sapiens

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<400> 39
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<210> 40  
 <211> 527  
 <212> DNA  
 <213> Homo sapiens

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<400> 40
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<210> 41  
 <211> 449  
 <212> DNA  
 <213> Homo sapiens

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<400> 41
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aataactggt ttganccaat ttggtcggg 449

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<210> 42

<211> 411  
<212> DNA  
<213> Homo sapiens

<400> 42  
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<210> 43  
<211> 455  
<212> DNA  
<213> Homo sapiens

<400> 43  
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<210> 44  
<211> 312  
<212> DNA  
<213> Homo sapiens

<400> 44  
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<210> 45  
<211> 600  
<212> DNA  
<213> Homo sapiens

<400> 45  
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<210> 46  
<211> 538  
<212> DNA  
<213> Homo sapiens

<400> 46

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<210> 47  
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 <212> DNA  
 <213> Homo sapiens

<400> 47						
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 <211> 293  
 <212> DNA  
 <213> Homo sapiens

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<210> 49  
 <211> 632  
 <212> DNA  
 <213> Homo sapiens

<400> 49						
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<210> 50  
 <211> 582  
 <212> DNA  
 <213> Homo sapiens

<400> 50						
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agaagctaga	gaagtgcctt	ctagctggaa	acaaagacaa	taagtctctt	ttttctttct	420
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gggccttgca	gaacttcaag	gaggacaagc	ccaagctcgt	gcgggatgag	tatgagtacg	540
tgtcggatga	cggtgagctt	cagatcgacg	agtttcccat	cc		582

<210> 51  
 <211> 523  
 <212> DNA  
 <213> Homo sapiens

<400> 51						
gggtgagctgc	gacgtgactg	gctagctgcg	tgggtactgg	aacaagcaaa	cgaggcagcg	60
agcgaaggac	gggagccgga	ccctgggccc	cgtggaactc	cagcctgcgc	caccacgtca	120
cgcacacgct	cggcgctgcg	atccgcgcac	ataacgatat	ttggatttga	cctgcatttt	180
ggaattttatc	tacacttaaa	atgccaccag	cagttggagg	tccagttgga	tacacccccc	240
cagatggagg	ctggggctgg	gcagtggtaa	ttggagcttt	catttccatc	ggcttctctt	300
atgcattttcc	caaatcaatt	actgtcttct	tcaaagagat	tgaagggtata	ttccatgccca	360
ccaccagcga	agtgtcatgg	aatatcctcc	ataatgttgg	ctgtcatgta	tggtggaggt	420
cctatcagca	gtatcctggg	gaataaatat	ggaagtcgta	tagtcatgat	tgttgggtggc	480
tgtctgtcag	gctgtggctt	gaattgcagc	ttctttctgt	aan		523

<210> 52  
 <211> 348  
 <212> DNA  
 <213> Homo sapiens

<400> 52						
gcangcgcga	ntaccggcgc	tcgccaaagga	ccctggaagc	taccgttacc	ccgccggcag	60
cgtgggcnca	tgagcagctc	gggactgaat	tcggagaagg	tagctgctct	gatacagaaa	120
ctgaattccg	accccagtt	cgtacttgcc	cagatgttcg	ggaccaccca	cgacctgctg	180
gacatctgtc	tgaagcgggc	cacggtgcag	cgcgcgcana	tgggtgttcca	gcacgccgtg	240
ccccaggagg	gaaagccaat	caccaaccag	aagagctcag	ggcgatgctg	gatcttttct	300
tgtctgaatg	ttatgaggct	tccattcatg	aaaaagttaa	atattgaa		348

<210> 53  
 <211> 355  
 <212> DNA  
 <213> Homo sapiens

<400> 53						
ggcggcgncg	gcggcgctant	angnagggtg	cacagagaac	acccctagca	tgaacagtgt	60
gaggattcca	ccagcttttt	caccatgaag	gagacagacc	gggagccgtt	gcgacanagg	120
tgcaaaagggt	tgctgggatg	ctccagcgcc	cggaccagct	ggacaagggt	gagcagtatc	180
gcaggagaga	agcgcggaag	aaggcctccg	tggacangaa	tttgaagaga	gcggatctga	240
aagctcaggt	gcccgaattct	gtcctgtggg	tcagccgtcc	tggggccaag	ttgtgggtgct	300
ggctgaacag	caggaaactcc	cccgcgccaa	agccagttga	agttcctgac	cgttc	355

<210> 54  
 <211> 330  
 <212> DNA  
 <213> Homo sapiens

<400> 54						
aacnatgcng	ttttctcctt	ctacacactt	gggcgtcatg	tctggagctg	cagaggaggt	60
ggccactgga	gcagagggtg	tggatctgct	ggtggccatg	tgtagggcag	cttttagagtc	120
ccctagaaaag	agcatcatct	ttgagcctta	tccctctgtg	gtggacccca	ctgatcccaa	180
gactctggcc	tttaacctta	agaagaagaa	ttatgaagcg	gcttcagaaa	gctctgggat	240
agtgtgatgt	ctattccggg	agatgaccca	gggtccataa	tttggaatc	aagaaaacaga	300
tggacaaaagt	ttggatcccc	ctgggcccac				330

<210> 55  
<211> 451  
<212> DNA  
<213> Homo sapiens

<400> 55  
tcngacagaa aagctgtacg ttatatgttg gaaatctttc tttttacaca actgaagaac 60  
aaatctatga actcttcagc aaaagtgggt acataaagaa aatcattatg ggtctggata 120  
aaatgaagaa aacagcatgt ggattctgtt ttgtggaata ttactcacgc gcagatgagg 180  
aaaacgccat gcggtacata aatgggacgc gtctggatga ccgaatcatt cgcacagact 240  
gggacgcagg ctttaaggag ggcaggcaat acggccgtgg ngaatctggg ggctagggtc 300  
cgggatgaag tatccggcag gactaccgat gctgggaaga ggaggctaatt gggaaaactg 360  
gcacagaacc agtgagtggg tgagagctct gtcagtgaac aacactcctt tggcctgttt 420  
gaatttgctg aagaacatca cctaaagtcg g 451

<210> 56  
<211> 355  
<212> DNA  
<213> Homo sapiens

<400> 56  
ggatgtggag tgatgggaac ggttcacata ctgactgtgg atctcaagta taccattgaa 60  
aaccacaagg actttgtgga ctccacaccac cagaagcccg ttaatgctat catcgagcat 120  
gtgcgggacg gcagtgtggg cagggccctg ctccctccag attactacct ggttacagtc 180  
atgctgtcag gcatcaagtg cccaactttt cgacgggaag cagatggcag tgaaactcca 240  
gagccttttt ctgcagaagc caaatttttc actgagtcgc gactgcttca gagagatgtt 300  
cagatcattc tggagagctg ccacaaccag aacattctgg gtaccatcct tcattc 355

<210> 57  
<211> 468  
<212> DNA  
<213> Homo sapiens

<400> 57  
ttgttcttga ttcccgtcgt aacttaaaagg gaaattttca caatgtccgg agcctttgat 60  
gtcctgcaaa tgaaggagga ggatgtcctt aagtctcctg cagcaggaac ccacttaggt 120  
ggcaccaatc ttgacttcca gatggaacag tacatctata aaaggaaaag tgatggcatt 180  
tatatcataa atctcaagag gacctgggag aagcttctgc tggcagctcg tgcaattgtt 240  
gccattgaaa accctgctga tgtcagtgtt atatcctcca ggaatactgg ccagaggggt 300  
gtgctgaagt ttgctgctgc cactggagcc actccaattg ctggccgctt cactcctgga 360  
accttcacta accagatcca ggcagccttc cgggagccac ggcttcttgt ggttactgac 420  
ccagggctga ccacagctct caaggggcat cttatgtttac ctacctac 458

<210> 58  
<211> 394  
<212> DNA  
<213> Homo sapiens

<400> 58  
acagtgtgcc ttcagccoga ggactcggac toggctcaga ctccgggtct ttgtttcctg 60  
gaaggtggca cggggactca ggcggccagg gtccagggcc aggtccaagg tcacagagct 120  
ttggaggtca cctgtaggcg gtccagggga cggcgttgag acaggaactc cttgggtgga 180  
caatgagcag ggtgggagac aggggcccgt gatgggggac tccagaggtc aggggtgtct 240  
gggttggagg ggaggggact cacggctccc aagcagggtt ttagaacgtt tgtcaatgta 300  
aaggcagatg ttggactgta ccagggctctg ctccagagacc acctgctccc gacactcaaa 360  
cgcagacctg gggatctcgg caggtatgaa ctgc 394

<210> 59  
<211> 296  
<212> DNA  
<213> Homo sapiens

<400> 59  
gccaggcgta ctgacagggt gaccagcgga ctgggtggaga tggcgacgct ctctctgacc 60

gtgaattcag	gagacccctcc	gctaggagct	ttgctggcag	tagaacacgt	gaaagacgat	120
gtcagcattt	ccgttgaaga	agggaaagag	aataattcttc	atgtttctga	aaatgtgata	180
ttcacagatg	tgaattctat	acttcgctac	ttggctagag	ttgcaactac	agctggggta	240
catggctcta	atctgatgga	ccatacttta	gattgatcac	ttggttggta	ggtttta	296

<210> 60  
 <211> 426  
 <212> DNA  
 <213> Homo sapiens

<400> 60	cggaactccc	gggaagtgga	ccggcagaag	agggggctag	ctagctagtc	tgtgcccacc	60
agggagaacc	ccgcgcccc	ccggtgtgag	gcgccctcac	agggccgggt	gggctggcga		120
gcgacgcgcg	cgcaggaggg	tgtgaggagt	gtgtggaaca	ggaccggga	cagaggaacc		180
atggctccgc	agaacctgag	caccttttgc	ctgttgctgc	tatacctcat	cggggcggtg		240
attgcccggac	gagatttcta	taagattctta	ggggtgcctc	gaagtgcctc	tataaaggat		300
attaaaaagg	cctataggaa	actagccctg	cagcttcac	ccgaccggaa	ccctgatgat		360
ccacaagccc	aggagaaaatt	ccaggatctg	ggctgctgct	atgagggttc	gtcagatagt		420
gagaac							426

<210> 61  
 <211> 461  
 <212> DNA  
 <213> Homo sapiens

<400> 61	cgcttctctgt	acaagggcga	ggggctgaac	aagatcagcc	atcggggact	acctggggga	60
gagggaaaga	ctgaacctgg	cagtgcctcca	tgctttttgtg	gatctgcctg	agttcaccga		120
cctcaatctg	gtgcaggccc	tcaggcagtt	tctatggagc	tttcgcctac	ccggagaggc		180
ccagaaaatt	gaccggatga	tggaggcctt	cgcccagcga	tactgcctgt	gcaaccctgg		240
ggttttccag	tccacagaca	cgtgctatgt	gctgtccttc	gccgtcatca	tgctcaacac		300
cagtctccac	aatcccaatg	tccgggacaa	gccgggcctg	gagcgctttg	tgcccatgaa		360
ccggggcatc	aacgagggcg	gggacctgcc	tgaggagctg	ctcaggaacc	tgtacgacag		420
catccgaaat	gagcccttca	agattcctga	ggatgacggg	a			461

<210> 62  
 <211> 422  
 <212> DNA  
 <213> Homo sapiens

<400> 62	atcaacaagg	agatgctaaa	ggttggaaaag	cagaaaagcct	tggtcaagga	tacagagctg	60
gactttgcatg	ggtattagga	gatgctgaag	aactgccctt	tgatgatgac	aagtttgata		120
tttacaccat	tgcttttggg	atccggaatg	tcacacacat	tgatcaggca	ctccagggaag		180
ctcatcgggt	gctgaaacca	ggaggacggg	ttctctgtct	ggaatttagc	caagtgaaca		240
atccccctcat	atccaggcctt	tatgatctat	atagcttcca	ggatcatccct	gtcctgggag		300
aggtcatcgc	tggagactgg	aagcctatca	gtaccttgta	gagagtatcc	gaagttttccg		360
tttcaggaag	agttcaagga	catgatagaa	gatgcaggct	ttcacaagggt	gacttacgaa		420
ag							422

<210> 63  
 <211> 230  
 <212> DNA  
 <213> Homo sapiens

<400> 63	agaagttagag	cagaagaaga	agcggacctt	ccgcaagtcc	acctaccgcg	gcgtggacct	60
cgaccagctg	ctggacatgt	cctacgagca	gctgatgcag	ctgtacagtg	cgccgccaggc		120
ggcggctgaa	ccggggcctg	cgccggaagc	agcactccct	gctgaagcgc	ctgcgcaagg		180
ccaagaagga	ggcgccgccc	atggagaagc	cggaagtggg	gaagacgcac	cttcggggaca		240
tgatcatcct	acctgagatg	gtgggcagca	tggtggggcgt				280

<210> 64

<211> 408  
<212> DNA  
<213> Homo sapiens

<400> 64  
ctgggagatg aaacagagga agaagaaaca aagcccattg agctccctgt caaagaggaa 60  
gaacccccctg aaaaaactgt tgatgtggca gcagagaaga aagtgggtgaa aattacatct 120  
gaaataccac agactgagag aatgcagaag agggctgaac gattcantgt acctntgagc 180  
ttggagagta agaaagctgc tcgggcagct aggtttggga tttcttcagt tccaacaaaa 240  
ggctctgtcat ctgataacaa acctatgggt aacttgggat aagctgaagg aaagagctcc 300  
aaagatttgg tttgaatgtc ttttcaatct ccagaaagtc ttgaagatga tgaggaaact 360  
gaaaaagagg gaaggagcga tttggggatt gtcacaagtt cagctgga 408

<210> 65  
<211> 463  
<212> DNA  
<213> Homo sapiens

<400> 65  
agccgctggg gcgaggacgg cgcgaggctg ctgctgctgc ccccgcccg cgcggtgga 60  
aacggagagg ccgagccaag cggcgccccc tcttatgtct ggaggatgct ggagagtagc 120  
ggctgcaaaag gctgaaggag ggcgtgctgg agaagcgcag acnnggttgt tgcagctctg 180  
gaagaaaaag tgttgcattc tcaccgagga agggctgctg cttatcccg ccaagcagct 240  
gcaacaccag cagcagcagc aacagcagca gcagcagcag caacaacagc ccgggcaggg 300  
gccggccgag ccgtcccaac ccagtggccc cgctgtcgcc agcctcgagc cgccggtcaa 360  
gctcaaggaa ctgcatttct ccaacatgaa gaccgtggac tgtgtggagc gcaagggcaa 420  
gtacatgtac ttcactgtgg tgatggcaga gggcaaggag atc 463

<210> 66  
<211> 512  
<212> DNA  
<213> Homo sapiens

<400> 66  
cgcgccaagg gacgtgtttc tgcgctcgcg tggatcatgga ggcgctgccc ctgctagccg 60  
cgacaactcc ggaccacggc cgccaccgaa gctgcttctg ctgcccgtac tgctgttcc 120  
gctgccggct ggagctgtgc agggctggga gacagaggag agggcccgga ctgcggaaga 180  
ggagtggcac ttctacgcgg gtggacaagt gtaccggga gaggcatccc ggggtatcgg 240  
cgccgaccac tccctgcacc taagcaaagc gaagatttcc aagccagcgc cctactggga 300  
aggaacagct gtgatcgatg gagaatttaa ggagctgaag ttaactgatt atcgtgggaa 360  
atacttgggt ttcttcttct acccaacttg tttcacattt gtgtgtccaa ctgaaattat 420  
cgcttttggc gacagacttg aagaattcag atctataaat actgaagtgg tagcatgctc 480  
tgttgattca cagtttacct atttggctgg ga 512

<210> 67  
<211> 367  
<212> DNA  
<213> Homo sapiens

<400> 67  
ggagagcaac attaggatct acagcgagag gccccctcct ggctgagcaa agatgacatc 60  
cgaagaatgc gactcttggc ggacagcgca gtggncaggg ctccggcctg tgctctctag 120  
gagcggagcc gtttgcctgg gctggagggg ggcgacctg gcgctgtgct ccgctgtggc 180  
cctagccccct gtgggcttct caagcagccc ttggacatga gtgaggtgtt tgccttccac 240  
ctagacagga tccctggggct caacaggacc ctgcccgtctg tgagcaggaa agcagagttc 300  
atccaagatg gccgnccatg ccccatcatt ctttgggatg catctttatc ttcagcaagt 360  
aatgaca 367

<210> 68  
<211> 402  
<212> DNA  
<213> Homo sapiens

<400> 68

tgcagatgta	gatccctgaaa	accagaactt	tttacttgaa	togaatttgg	ggaagaagaa	60
gtatgaaaca	gaatttccatc	caggtaactac	ttccttttgg	atgtcagtat	ttaatctgag	120
caatgcatg	gtgggacagtg	gaatccttgg	gctttcttat	gccatggcta	atactggaat	180
tgcctctctt	ataattctct	tgacatttgt	gtcaatatct	ttcctgtatt	ctgttcattc	240
ccttttgaag	actgccaatg	aaggagggtc	tttattatat	gaacaattgg	gatataaggc	300
atttggatta	gttgaaagc	ttgcagcatc	tggatcaatt	acaatgcaga	acattggagc	360
tatgtcaagt	tacctcttca	tagtgaaata	tgagtgcct	tt		402

<210> 69  
 <211> 545  
 <212> DNA  
 <213> Homo sapiens

<400> 69						
gcggcgctg	gcacgtnnca	gggctgaagc	ggcgggcg	gtggggnc	cacgtagccc	60
ggcgctcg	atggctctcc	tgggtgctcg	tctgggtgag	tgtacctct	ttctggcagt	120
gaatggctc	tattcctcta	gtgatgatgt	gatcgaatta	actccatcaa	atttcaaccg	180
agaagttatt	cagagtgata	gtttgtggct	tgtagaattc	tatgctccat	gggtgtggta	240
ctgtcaaaga	ttaacaccag	aatggaagaa	agcagcaact	gcattaaaag	atgttgtcaa	300
agttgggtg	gttgatgcag	ataagcatca	ttccttagga	ggtcagtatg	gtgttcaggg	360
atttccctacc	attaagattt	ttggatccaa	caaaaacaga	ccagaagatt	accaagggtg	420
cagaactgg	gaagccattg	tagatgctgc	gctgagtgct	ctgcgccant	cgtgaaggat	480
cgctcggggg	acgaagcggg	ggatacagtt	ctggaaaaa	aggcagaagt	gatagttcaa	540
gtaag						545

<210> 70  
 <211> 359  
 <212> DNA  
 <213> Homo sapiens

<400> 70						
gcctactgca	ccgccgacca	caacgtgagc	cccaacatct	tcgcctgggt	ctacagggag	60
atcaatgatg	acctgtccta	ccagatggac	tgccacgccg	tgnagtgcga	gagcaagctc	120
gaggccaaga	aactggccca	cgccatgatg	gaggcccttca	ggaagacttt	ccacagtatg	180
aagagcgagc	ggcggatcca	cagcaacagc	tcctccgaag	aggtttccca	ggaattggaa	240
tccgatgatg	gctgaatgaa	cttttagacg	cttnagcaaa	ggcagcattg	gtcacggggg	300
tcaagggaat	tagattgagt	aagcaacggt	tcaaatattg	gatgaaagat	ttccaaatt	359

<210> 71  
 <211> 392  
 <212> DNA  
 <213> Homo sapiens

<400> 71						
ctatgtngca	attccaagac	caagtcagta	gtattacagc	tggctgatgg	ccagatattt	60
aagtaccttt	gggagtcacc	ttctctggct	attaaaccat	ggatgaactc	tggtggattt	120
cctgttcggg	ttccttatcc	atgcaccacg	accgaattgg	ccatgattgg	agaagaggaa	180
tgtntccttg	gtctgactga	cagggtgtcg	tttttcatca	atgacattga	ggttgcgtca	240
aatatcacgt	catttgcagt	atatgatgag	tttttattgt	tgacaaccca	ttcccatacc	300
tgccantgtt	tttgccctgag	ggatgcttca	tttaaaacat	tacaggccgg	cctgagcagc	360
aattcatgtg	tcccatgggg	aagtttctgc	gg			392

<210> 72  
 <211> 344  
 <212> DNA  
 <213> Homo sapiens

<400> 72						
gagttcacag	accgcacttt	ggcaagttgt	cctcactgca	ggaaagtgtc	atctattggg	60
cgcagatacc	cacgtaagan	atgtatctnc	tgcttcttgc	ttggcttgc	tttggcagtc	120
actgccactg	gccttgnctt	tggcacatgg	aagcatgcac	ggcgatatgg	aggcatctat	180
gcagcctggg	catttntcat	cctgttggct	gtgctgtgtt	tgggcccggg	ttcttattgg	240
gcctgtatga	aggtcagcca	ccctgtccag	aacttctcct	gagcctgatg	acccacagac	300
tgtgcctggg	ccctccctgg	tggggacagt	gacactacga	aggg		344

<210> 73  
<211> 311  
<212> DNA  
<213> Homo sapiens

<400> 73  
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ggtagaggctg cagttccatg atgtggccgg cgacatcttc caccagcagt gcaagcgcaa 120  
cgagctggtn atccgcgtgc agcccaacga ggccgtgtac accaagatga tgaccaagaa 180  
gcccggcatg ttcttcaacc ccgaggagtc ggagctggac ctgacctacg gcaacagata 240  
caagaacgtg aagctccctg acgcctatga ggcctcctc ctggacgtct tctgctggac 300  
cagatgcact t 311

<210> 74  
<211> 176  
<212> DNA  
<213> Homo sapiens

<400> 74  
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tccaggtact accatgtttc tgcattggct agtgggaatg gtatatgnt tctaccttgc 120  
ctccctcatt ctactactga gagaggtact tngacctggt gtccctgtgg ttctaa 176

<210> 75  
<211> 276  
<212> DNA  
<213> Homo sapiens

<400> 75  
ccaagattgg ttccagcgcc agtacctgtc aactccagat agtcagtctc tgcgctgtga 60  
cctcattcgc tacatctgtg gggtagtcca nctttctaag gaagtactga gttcagatat 120  
cttgccccgg tgggccatca ttgggtggct cctgacaacg tgcacgtcaa atgtcgctgc 180  
ctccaatgcc aagctggctt tgttttatga ctggctgttc tttagtccag acaaggatag 240  
cattatgaac atagaaccag ccatcctggt catgca 276

<210> 76  
<211> 310  
<212> DNA  
<213> Homo sapiens

<400> 76  
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atgccatagt attgtgcaag cataaaggca tcacaagtgg tggggctcag ctactctggt 120  
tctacagac tttcttcttt gggatagcgt ctctcaccat cttgattgct tacaaacgga 180  
agcgccaaaa acaaacttga agttgtctga aagcttgctc tacactttta cattcatcct 240  
cacccttttt tttgtggggg agaggaggtt gcagtanttt actcagtgat ctttctactt 300  
tctagaaact 310

<210> 77  
<211> 295  
<212> DNA  
<213> Homo sapiens

<400> 77  
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gctcgtttctt agcttcgacg aggagaagag gcgggagtag ctgacaggct tccacaagcg 120  
gaaggctcag cgaagaagg cagccattga ggagattaaag cagcggctga aagaggagca 180  
gaggaagctt cgggaggagc gccaccagga atacttgaag atgctggcag agagagaaga 240  
ggctctngag gaggcagatg agctggaccg gttgggtgaca gcaaagacgg agtcg 295

<210> 78  
<211> 406  
<212> DNA  
<213> Homo sapiens

<400> 78  
caaaaaagctg gtnngcctcca gacccgactt tttcaaccag gagcaccaga cacgggatgt 60  
ggactgtgtc ctcaacaacag gagaagtctt cagggttgctg gnggnagagg gggctcgggg 120  
ggctacctgg agcacgtgtt ccggcacgcg gcccgagagc tctttggaat ccatgtggct 180  
gaggttacct acaaaacccct gaggaacaaa gacttccagg aggtgacact ngagaaggag 240  
ggccagggtg tgctgcactt cgcaatggcg tacggcttcc gcaacatcca gaacctgggtg 300  
cagagggtca aacgagggcg ctgccccctac cactacgtgn aggtcatggc ctgccccctca 360  
gggtgcctga acggcggggg gccagctcca ggtcccagac aaggcc 406

<210> 79  
<211> 288  
<212> DNA  
<213> Homo sapiens

<400> 79  
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gagatgcata atttntttt ctgtgagttt gctactggct ttttggagta ttngatatg 240  
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<210> 80  
<211> 322  
<212> DNA  
<213> Homo sapiens

<400> 80  
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actttctaca atactacagt ggaggagatg cccatgaatg tggctgacct tatttaattc 240  
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ttgtgctctt ttcttttggg ga 322

<210> 81  
<211> 361  
<212> DNA  
<213> Homo sapiens

<400> 81  
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gttagcatgt tttagcaaac ttgtgaaatt ataataagtt tgtagttaca tgtgaaactc 180  
taaatgcatg gcaactgtta atgtcataac agttttagtt ttttgttctg ttctgtcatg 240  
tgccacaaaa tatgtacttt tttactttt ttccctttgt atatcagttt cggggttaca 300  
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g 361

<210> 82  
<211> 206  
<212> DNA  
<213> Homo sapiens

<400> 82  
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tgtttgcagc attcatagcg caaattgtac ctgaactgga aagccgaatt ctgcagatat 180  
ccatcacact ggcgggcgct cgagca 206

<210> 83  
<211> 563  
<212> DNA  
<213> Homo sapiens

<400> 83  
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gatccgagtt gggaacccat gggaacccat tgttctctat gggccactcc acaccaagca 180  
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aagtagcatc ttaccaaaag atctgggcag aatcttttgc tggcttggac ctaaaaggatc 480  
agactgtggc attgtaaatg tcaacattcc aacaagtggg gctgagattg gaggtgcctt 540  
tggaggagaa aagcacactg gtg 563

<210> 84  
<211> 450  
<212> DNA  
<213> Homo sapiens

<400> 84  
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ctgaattaat atagggttat attacttggg cctcagccat ttgagcctca gtgtctgcat 300  
cctatgtgtt tagtatatgg acatctaaat gaaattatta acgtggcaat ttatgcgtgc 360  
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taaaaacatc cataattcac catcttgaca 450

<210> 85  
<211> 320  
<212> DNA  
<213> Homo sapiens

<400> 85  
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aaaccagtgg gatagaaagt ccaacggatg accatgtaca gatggacca gctggaatgt 180  
gcgagagacat ttttgagagt gttcattcat catataatgt tgctacaggt aacattataa 240  
gcaacagttt agtagcagag acagtaactc atagtttgtt acctcagaat gagcctaaga 300  
ctttaaatca agatattgag 320

<210> 86  
<211> 524  
<212> DNA  
<213> Homo sapiens

<400> 86  
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aaaaggtaact aagcctttta caaattgggt agtactggca catgagatct agagcaggag 180  
caactttctca cacatagtaa gtgggaaaag aaagtgtctt gaaagtctct cctcaccta 240  
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tatgttttct tgcagctgcg gttgttaagg cttggcaaga caagcagtggt ggccagaatt 420  
ttgaacttct gatgaatgtg taatgcaaag gaccttgtag atttttttgt ttcaagggtcc 480  
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<210> 87  
<211> 439  
<212> DNA  
<213> Homo sapiens

<400> 87  
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ttctggaaca gttcaaatcc caagtctcgg aatgaggact acaccataca tgtgcagctg 120



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tccaaggacc	aagtccgctg	gcagtgcac	cgccccagt	ccaagcatgg	cccgagagaag	300
ctgtctgaga	agttccagcg	cttcacacct	ttcacccctgg	gcaaggaggt	caaagaagga	360
cacagctact	actacatctc	caaaccacac	caccagcatg	aagaccgctg	cttgagggtg	420
aaggtaactg	tcagtggca					439

<210> 88  
 <211> 376  
 <212> DNA  
 <213> Homo sapiens

<40>	88					
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ttccactggc	gaatcggcca	tgtcagagcc	agacaggatg	tttatgaagg	taaactagct	180
gaccagtact	accagagaac	tttactgaag	aaagtctgga	aagtctggcg	ttccgtagtg	240
caaaagcagt	ggaaagatgt	ggtagaaaaga	gcttgtcaag	caagagctga	agaagtttgt	300
atccagattt	ccaatgatta	tgaagccaaa	gttgctatgt	tatctggagc	tttggaaaaa	360
gcaaaagctg	agattc					376

<210> 89  
 <211> 341  
 <212> DNA  
 <213> Homo sapiens

<400>	89					
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aggcccgcgtg	gttcgtgctg	gacaagacca	agcaccagct	gcgctactac	gaccaccgtg	120
tggacacaga	gtgcaagggg	gtcatcgact	tggcggagggt	ggaggctgtg	gcacctggca	180
cgcccactat	gggtgcccc	aagactgtgg	acgagaaggc	cttctttgac	gtgaagacaa	240
cgcgctcgctt	tacaacttct	gtgccagga	cgtgccctcg	gcccagcagt	gggtggaccg	300
gatccagagc	tgccctgctg	acgcctgagc	ctcccagccc	t		341

<210> 90  
 <211> 394  
 <212> DNA  
 <213> Homo sapiens

<400>	90					
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atggattttt	tcttcagag	aaaatatctt	caactctcaa	agtagaacc	tgttctttga	180
cccctggcta	cacaaagctg	cttcagttta	tccagaacat	catttatgag	gaaggatttg	240
atggatccaa	tcctcagaaa	aaacagagaa	acattttaag	aataggaatt	cagaatcttg	300
gctcaccttt	atggggagac	gatatttgc	gtgagaaaat	ggtggcaaca	gtcacagcct	360
taccaagttc	ctctatgttc	tccgtgggtc	tctg			394

<210> 91  
 <211> 153  
 <212> DNA  
 <213> Homo sapiens

<400>	91					
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gtcgaaaacc	ttggaggctt	tttttgcagt	tggccacagg	ggtgttgag	gcctgcttat	120
gggtcctcga	tgctgagaaa	ctcctgcttg	ggg			153

<210> 92  
 <211> 479  
 <212> DNA  
 <213> Homo sapiens

<400> 92

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tgtagaaaaa	tagatgttcc	agccaccatt	tacttaactg	tctaatattt	aagaccaatc	180
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taaaacaaaa	agtgtgtgtg	tgtgtgtgtg	tgtgtttact	ctcaaagcac	agcattttcca	300
cagcagcagc	caacatgggg	tttagtagct	tcactcacc	ctaactaaag	ctttgaataa	360
accagtgtat	tactacaaaa	aacactgtcc	ttgaaagaaa	ngacngcagt	catacatgaa	420
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<210> 93  
 <211> 560  
 <212> DNA  
 <213> Homo sapiens

<400> 93						
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tacacagtgg	aatgaaagaa	tacgaaattc	aaaaacatta	ttaaaagtcc	atatgccgca	120
gcagcacgcg	ccatgatgag	agctccccct	ccgaggcgct	tctggagcag	cttccctcaac	180
ctgtccggga	gacgggctca	gaagagcagg	gcccccatgc	tgccaacctc	gctttgctcc	240
ttaacgaaga	tctcaaagta	ctggttagatg	attgtgactg	cgagcaggat	cccggtttcca	300
gacccaatgg	cgcttaggaa	gtcagccagg	accgagaggg	ccccgatgca	cagcccacca	360
aaggccgcg	ctgtggggat	gtaccgggtg	agttcatgga	ccatggagggt	ctctcggtgg	420
cctctcatca	ccatctgctg	ctccttcagc	tgttttgcaa	catctttggc	agaggaaacct	480
gagacctcaa	tccacgtttt	ggagaagaat	gcacaggagc	ccagcatgaa	cactatgtat	540
acaactgcat	ggaacgggtc					560

<210> 94  
 <211> 396  
 <212> DNA  
 <213> Homo sapiens

<400> 94						
gacctcttac	cttactgatg	ctggcaaata	acaaatacag	atggtaatag	actctggaat	60
agttccctcat	ttggttccctc	tgctcagcca	ccaggaagtt	aaagtccaga	ctgctgcact	120
tagagctgtg	ggcaacattg	ttactggaac	tgatgggcaa	acacaagtag	ttttgaaactg	180
tgatgctctt	tcacacttcc	cagcactcct	gacacatccc	aaagagaaaa	ttaataaaga	240
agcagtgtgg	ttcctctcca	acatcactgc	aggaaatcag	cagcagggtac	aggcagtaat	300
tgatgccaat	cttgtacca	tgataatata	cctttttggat	aagggggatt	ttggcccaag	360
cagcttcttt	ttgagtgcc	agtcgacg	gccgga			396

<210> 95  
 <211> 622  
 <212> DNA  
 <213> Homo sapiens

<400> 95						
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gattttccaac	aaaagcttta	ggaattggga	aggttttctac	atctcctttg	tcatcttcaa	120
tgtcatcgaa	attgctgctg	tctatgtcac	tgctgagttc	agggtactaca	ggagctgccg	180
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taatttttgc	atatgttctt	acaagtgaat	ccgcataaaa	tggagtattc	cccactagca	420
tctcataaag	gaaaacacct	acagaccacc	aatcacattc	tgcgccatag	aaaccatcac	480
ccccctgtga	tttcagaacc	tcagggtgata	tataatccgg	tgttccaact	gctgtatcac	540
aatgtaccat	gcctgtttca	tccatcttca	tacagggtgc	aaaatctgct	aatttttagat	600
ggctcatgtt	atcacagagc	at				622

<210> 96  
 <211> 445  
 <212> DNA  
 <213> Homo sapiens

<400> 96

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tgcaaatgca	tcagtcactt	tgaggcttga	ggtggagatt	tccagcttag	aagttgttaa	300
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tgacatggtg	gctgtctgac	cgatg				445

<210> 97  
 <211> 541  
 <212> DNA  
 <213> Homo sapiens

<400> 97						
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g						541

<210> 98  
 <211> 384  
 <212> DNA  
 <213> Homo sapiens

<400> 98						
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<210> 99  
 <211> 535  
 <212> DNA  
 <213> Homo sapiens

<400> 99						
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caatctgtga	ctgtgtgagg	ttggccaggc	aggtcaccat	caaaagggtca	ttgatgttgc	240
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<210> 100  
 <211> 452  
 <212> DNA  
 <213> Homo sapiens

<400> 100						
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acaattttga ctaaagaata aatcccttca ttgttaaacc taaacagctt taaaattcag 180
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tagctgggag aatagcactg aacagtgtat tgcattgagc agaaatccct cagaaaggca 420
acactgggatt cattttttaga caggcataga ct 452

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<210> 101  
 <211> 447  
 <212> DNA  
 <213> Homo sapiens

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<400> 101
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gcatttcaca cccttcaatt acaccacatc aagaatgagg ggaaagcgtt gtaaaagtag 180
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gatattgttt gctcgttcat atgagtcact tagaaggatt cttatttccat gttcgtatggc 420
agattggggtt tctggactta ggttttcc 447

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<210> 102  
 <211> 368  
 <212> DNA  
 <213> Homo sapiens

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<400> 102
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tgcaaaagcat attgcacatt acagagaagc atttgtgtat ttccgtaagt tttcccagag 240
tttccaactc tatacttttt tttgtaaaaa gattttacct tcttatgcaa aataaataaaa 300
aatgcagctt gtgttttgcct atttaaaaact aaaacaaaat aacctttaaa aatattattc 360
ctctgcct 368

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<210> 103  
 <211> 685  
 <212> DNA  
 <213> Homo sapiens

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<400> 103
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ctgtgaccca taatcccaac attttacagt gcaggggaga aggaggcttg gggaagcatc 180
caaaacaagt ctctcaaaaag aaatgacttc aaaacttcac attcctcttc cacacgggat 240
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ccggccgggtt aggctgtggc ttcaa 685

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<210> 104  
 <211> 676  
 <212> DNA  
 <213> Homo sapiens

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<400> 104
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ggaactttttg tggcctttttt tttcttttttc ttctgttaggc cgccttaagc ttactaaaatt 130
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tcaactcttaa ttaattgtgc ttaaggctga attaaaattg ggtgttccct tcttagagca 360
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<210> 105  
 <211> 367  
 <212> DNA  
 <213> Homo sapiens

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<400> 105
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tgacaagcag cagaggggga agataaaaagc caccgacctc atgggtggcc tgaggtgcct 180
gggggcagcc cgacgccagg ggaggtgcag cggcactgca gacccacggg atagacggaa 240
atggagagct ggattttctc actttttctga ccattatgca catgcaata aaacaagaag 300
acccaaagaa agaaattctt ctagccatgt tgatggtgga caaggagaag aaaggttacg 360
tcatggc

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<210> 106  
 <211> 440  
 <212> DNA  
 <213> Homo sapiens

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<400> 106
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cgctctgtac catggagaag tttgcttctt actgcctcac tgaaccagga agtgggagtg 120
atgctgcctc tcttctgacc tccgctaaga aacagggaga tcattacatc ctcaatggct 180
ccaaggcctt catcagtggt gctgggtgag cagacatcta tgtgggtcatg tgcggaacag 240
gaggaccagg cccaaggca tgctcatgca tagttgttga gaaggggacc cctggcctca 300
gcttttggcaa gaaggagaaa aaggtggggg ggaactccca gccaaacaga gctgtgatct 360
tcgaagactg tgctgtccct gtggccaaca gaattgggag cgagggggcag ggccttccctca 420
ttgccgtgag aggactgaac

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<210> 107  
 <211> 442  
 <212> DNA  
 <213> Homo sapiens

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<400> 107
gcacacctgt agtccatgct actcaggagg ctgaggtatg agaatcgctt gaacttggga 60
gccggagtta cagtgaagca agattgcgct actgcactcc agcctggggc acagagcgag 120
accctgtctc aaaaaaaaaa aaaaagatga tgtaaaacttc acagggcaag gtcttgttgt 180
ttgctcacct ctgggttatg ctcatataaac aagctttttg ccattgtacc taagtcagac 240
ccaagaatgg tgtctaccaa tgattgtctc ttgcccactta ccgtacgcat acagaaagtg 300
cgtgtggtaa tcggcataca caaagaagtc gtcccccttc ttgtgggtcca gcacggaatg 360
gctgttctgg aagtaattta acacactcaa aatgggtngcg ttctgtgtat acgggtgaaa 420
agggggccaag cagatgtctt ga

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<210> 108  
 <211> 453  
 <212> DNA  
 <213> Homo sapiens

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<400> 108
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acagcaggag ctcatcgtct gtggagccac cgctcttaca aagctcggct gccctacgg 120
ctctttctga tcattggcaa cacaatggca ttccagaatg atgtctatga atgggctcgt 130

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gaccaccgtg cccaccacaa gttttcagaa acacatgctg atcctcataa ttcccgaagt 240  
gggtttttct tctctcacgt gggttggctg cttgtgcga aacacccagc tgtcaaagag 300  
aaggggagta cgctagactt gtctgacctt gaagctgaga aactgggtgat gttccagagg 360  
aggtactaca aacctggctt gctgatgatg tgcttcaccc tgcccacgct tgtgccttgg 420  
tattttctggg gtgaaaacttt tcaaaacagt gtg 453

<210> 109  
<211> 421  
<212> DNA  
<213> Homo sapiens

<400> 109  
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aactccttgg ggatcagaat agaaagcttc tagctcaaaa ggcccccttc tcagaaaagg 120  
gagaactttg gagaaaggag cagcatgggt tcgactaaag acttcatgaa caccttcagt 180  
atctttctgaa tcatgggttc agatcagaga tattggaaaa ggaactgcac ctgtgacgga 240  
aaattctcta accttaaatg cgggggaaag tattgcacac tgtaatgcac atcctctggc 300  
tactgcttca tctgcattga gtgttgtgct aatatctttt ccaaagaatt tggcaattct 360  
ttctttcaca gctggaattc gtgtagcgc tccatcaatc tctactgcac tcacatcttc 420  
t 421

<210> 110  
<211> 309  
<212> DNA  
<213> Homo sapiens

<400> 110  
ataagaatgc ctgctagcaa gggttccagc aaggtgggtg gttgggtctgt aagtcagtct 60  
tgagtacttg aaacagttct gtgtttgttt tttttcctta gcgttttagaa tagccatcat 120  
tgtcctgcaa taggcagagc tatcacgtcc agggaaaaatg agggagggaa ccacagaggc 180  
agcgtgagat ccaaatacag cattcaaagg taattgggtcc agtgggtgct ggggagggag 240  
gaaggggtgat actccagggc tagccgtctt cttttggggg tgtgtacagc cgtttttttc 300  
gtggatctg 309

<210> 111  
<211> 489  
<212> DNA  
<213> Homo sapiens

<400> 111  
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aatgggttggg attctagtta atcaagtaat tcttttatta gcaaggcaga aactagtgtt 120  
ttttctataaa cttgaatgtt aattgtacag gtgtatttta caatttttgt ttaattaaaa 180  
aaatgttact atattaataa tcaacctggt caaaaccttt caggtttctt cgtttgagtc 240  
agtcgccttg attcagaatg tcacgagcct tatgatata tgctgaggcg ccttgcaaat 300  
ccgacaatta agatcctcct agaccttgag gtgatcagca taagaggcca gatccctctg 360  
agtatctac acctagcttc accttattct ttaaagggca gaaaatttga gacggtgatc 420  
gccgtaacag taaatttggc ttacaattgg ggcacccctc cggttttagaa agaggaaacac 480  
cagattgac 489

<210> 112  
<211> 563  
<212> DNA  
<213> Homo sapiens

<400> 112  
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cactgttggg gatgtgtata agctgttgc acgatactac aatgaagaat gcagaaaactg 120  
ttccacccct ggaccagaca tcaagcttta tccattcata taccatgctg tcgagtcctg 180  
tgcagagacc gctgaccatt cagggcaaa gacagggacc tgaggagccg agcgaatagc 240  
atctcctccc acctcccacc agagacgtcc tgtttgagct gtcagggtga atatatgaat 300  
tgacttaagt taatataaat gtgtacataa tccacatttg tagtcaaggga cgcaatctct 360  
tccacacatg tgcagttgtc agttggtaaa tctaaaactc ctccatcctg actcagctgg 420  
acttagatat gttttgtttc tattttcttc tatgtcagtt tttcattctt tgatgtttat 480

gtcttttgtc catcagatct cttgtgatat cacatggaag gttgtgctca gcctgtcggg 540  
tctctttctt cctgcacata tat 563

<210> 113  
<211> 587  
<212> DNA  
<213> Homo sapiens

<400> 113  
tttagccctg tgggaattatc ctcaattgca catcagctgg atgaggagga gaggatgaga 60  
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aatatggatg acagtgggtt tttctctatt cagggtataa gcaatgcctt gaaagtttgg 180  
ggtttagaac taatcctgtt caacagtcca gagtatcaga ggctcaggat cgatcctata 240  
aatgaaagat cattttatatg caattataag gaacactggg ttacagttag aaaattagga 300  
aaacagtggg ttaacttgaa ttctctcttg acgggtccag aattaatatc agatacatat 360  
cttgcacttt tcttggctca attacaacag gaagggtatt ctatatattgt cgttaagggt 420  
gatctgccag attgcgacgt gaccaactcc tgcagatgat taggggtcaac agatgcatcg 480  
accaaaactt attggagaag aattagcaca actaaaagag caaagagtc ataagacaga 540  
cctggaacga gtgttagaag cacatgatgg cttaggaatg ttagacg 537

<210> 114  
<211> 222  
<212> DNA  
<213> Homo sapiens

<400> 114  
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aaaagataaa atgacatttt gcaacatatg ccaaacttca tgttttagtgt acacttctaa 120  
ttattggcat agaggggatat aactgttaaa taacctgaaa tgacaccatg caatgggtgaa 180  
actacagaag ttgggtgaaaa gaagtattta cataatgtaa ta 222

<210> 115  
<211> 512  
<212> DNA  
<213> Homo sapiens

<400> 115  
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cagggtgtttt tgtcatgtgt cactgctggc tctgtggctt ccaggtaagc tggcggcagt 120  
accttatctg gtacctcaac aggtgttggc tcttcagatg ttagctcggg ggacgtgaca 180  
tcgggtagaag gttctgcagt ttctgggggaa tgttcgcgg acagtctctg ctccctctaca 240  
tctttgactt caaactgtcc acctcttgg tcatctgcat gctctttttt ggactgcccg 300  
tgaactgaca ccttgatggc aatttgctga ggttgctcgt gcagcgatga ggcgtccgag 360  
tcagcggcag gggagtcgct ccgcttcaga gagttgggga ttgtgtagac ctcatccctg 420  
tctgcggcct cctggcctct ggagtatgcc tcaaaaattc tgccccgggc ctccagccca 480  
accacctcat aatctcctcc atgatagtcg cg 512

<210> 116  
<211> 566  
<212> DNA  
<213> Homo sapiens

<400> 116  
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gaagaggctt tgcggagagg agcccatacc agcgcaaaagc tganctcctg gtgctggcgg 120  
tgctgtctga cggagctggc gaccacatca ggcagagact gctgccccca ctgctgcaga 180  
ttgtgtgcaa gggcctggag gaccctcgc aagttgtacg caatgctgcg ctgtttgccc 240  
tggggccagt ctcagaaaac ctacagcccc atatcagcag ctattcaagg gaggtaatgc 300  
cactgctcct cgctacttg aagtccgtgc ctcttggaaca cacacaccac ctaggccaagg 360  
cctgctatgc cctggagaat ttgttggaaga acctaggggc caagggtgcag ccttaccttc 420  
cggagcttat ggaatgcatt ctgcagcttc tgagggaaccc cagcagtcct cgggccaagg 480  
agctggctgt gaggcccttg ggagccattg ctacggctgc ccaggccctg ctgctgcccct 540  
acttccctgc catcatggag cactg 566

<210> 117  
<211> 549  
<212> DNA  
<213> Homo sapiens

<400> 117  
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ttggagaatt agtacagatt ggtcataaat gccgcataaa gtccgtagat ccaggtaaaag 120  
gtatttccaa atggcgtagt aatgcactgc agctgccgtg gccacaaaca ggtgccagat 180  
ggcgtgggca aatggaatga tgccatcact cttgaagaac acaactccca agcaataaat 240  
taagccccca caggcaagt cctgaagtcc atcgggtgtg ttcattgatg tcaccaccaa 300  
ggctggagag aatcccattg cgagatagaa aaagagttca accaccttat atttttcatg 360  
gtagagaaat acataaatgg ttccctccagc tgccatgagc cagataaacc aacgcataatg 420  
agatgccagg ggtccaagt caccgaagat taaccatgga gcataagaag cagcaatgaa 480  
gaaatagata accattctat cacacatgtg aaaacaatgc tccactgtcc ttaagtggct 540  
ctttttcca 549

<210> 118  
<211> 416  
<212> DNA  
<213> Homo sapiens

<400> 118  
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aggtgtgggt ggttgatgcc gattgttaact attatgagtc ctagttagct tgaagcggag 120  
aaggctacga ttttttttga tgtcattttg tgtaagggcg cagactgctg cgaacagagt 180  
ggatgatagc cctaagcata gtgttagagt ttggattagt gggctatttt ctgctagggg 240  
gtggaagcgg atgagtaaga agattcctgc tacaactata gtgcttgagt ggagtagggc 300  
tgagactggg gtggggcctt ctatggctga ggggagtcag gggtaggagac ctaattgggc 360  
tgattttact gctgctgcta ggaagaagcc caataagtgg gtgaggcttg gtttag 416

<210> 119  
<211> 405  
<212> DNA  
<213> Homo sapiens

<400> 119  
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gaaacttatg ggattccttt ctacctacaa tacctcgccc actggccaga gtatttcatt 120  
gttgacagag cactgggtgg agaattaatg ggttatatta tgggtaaagc agaaggctca 180  
gtagctaggg aagaatggca cgggcacgtc acagctctgt ctgttgcccc agaatttcga 240  
cgccctgggt tggctgctaa acttatggag ttactagagg agatttcaga aagaaagggt 300  
ggattttttg tggatctctt tgtaagagta tctaaccaag ttgcagttaa catgtacaag 360  
cagttggggc acagtgtata taggacggtc atagagtact attcg 405

<210> 120  
<211> 318  
<212> DNA  
<213> Homo sapiens

<400> 120  
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ctttgccaac acctgtgctg agtgccagca gcttatcggg catgactcga gggagctgtt 120  
ctatgaagac cgccattttc acgagggctg cttccgctgc tgccgctgcc agcgctcact 180  
agccgatgaa ccttcacct gccaggacag tgagctgctc tgcaatgact gctactgcag 240  
tgctttttcc tcgcagtgtc ccgcttgtgg ggagactgtc atgcctgggt cccggaaagc 300  
tggaatatg gagggcca 318

<210> 121  
<211> 460  
<212> DNA  
<213> Homo sapiens



<400> 121  
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 aagcccagaag acaaaaggaac aaaaaataaac aatgacgtgt attcccaacc aaacaatgag 120  
 aaatcttatgc aactagacta tcagttcaat ctattttccag gtcgctatcc tcaactgtgac 180  
 acgtggcaga gttacgcaca gatgtcagca ccaagacttc ctatttctggg agtaatccaa 240  
 attcctggag aaaagcttca aggtccacag caaagaaatc atccccccagc tggtcagttaa 300  
 cacgaacaaa attgccgac aatttaccct ccttatagat cagcagggca ggaagggcat 360  
 tcctgggtgaa ctgactgctg gcgccaataa ctgagctctt caccctgcag aacttgacag 420  
 ctgggtactc tgccggcaagg cagatcatgc aaccattcat 460

<210> 122  
 <211> 672  
 <212> DNA  
 <213> Homo sapiens

<400> 122  
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 atctggcagc ctgacctgta tgcgacactg gtcatactcc cgcttgggtgg gaggtccctg 120  
 gctgggagaa gaggggaacag gacctggctc tgggtgccact ggggggtggct gagagcccac 180  
 actgcccacca taactcttgg ctctctctgc ttgtccctc tcgactcttt ctctaactct 240  
 ttgtctggct gctaactcct cggccttttc cctccgctc tcttcagcag cccggcgcat 300  
 ctcatcttcc tgtagccgct gtctgtctgc tgacaactct tgcccttgtc tcttgcgtg 360  
 ccgttccccg ttcaatgcct cccgttctct tctttcttca cgctcccgct gcttctgggg 420  
 ccacagctcc aacatccctt ctagtctgtt ccgtcttttc cgttccactca aagnggggtt 480  
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 cttggtcttc aaaaaaccat tccatgaaag cttgagttcc ctgttccctt gaagggcaaa 660  
 aactttctcc gg 672

<210> 123  
 <211> 310  
 <212> DNA  
 <213> Homo sapiens

<400> 123  
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 gtgaaattgg agcacacaa tgtggcaaac atgctgtatg taccaataca gcaggaagct 180  
 tcaaatgtag ctgcagtcct ggggtggattg gagatggcat taagtgcact gatctggacg 240  
 aatgttccaa tggaaacctt atgtgcagcc agcatgcaga ctgcaagaat accatgggat 300  
 cttaccgctg 310

<210> 124  
 <211> 302  
 <212> DNA  
 <213> Homo sapiens

<400> 124  
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 gcaccagaac cgattcatcc ggcagagcgg canagcagca gcagcaaaa caacggagtg 120  
 aagagctgct agcagagaga aagcctgggc ctctggaggc gggaaagcga gaccagccc 180  
 tggggagatg cgggatcaga gccccaaggg aagagagtca agagaagaga gactaagtcc 240  
 gagggagacc agagagagga ggctggggat agggggagcc caagagttag gcctgaggcc 300  
 tc 302

<210> 125  
 <211> 811  
 <212> DNA  
 <213> Homo sapiens

<400> 125  
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 agtctgtgtc ttcttggccc atgctgtccc ccacagctct cgggtgggtac taaatgaacg 120  
 gccactgcat gatgcttctg tctttccccc ccgtggagat gaggtggctg tcttcacaga 180

ggaaatcgac	attggtgaca	tggctgctgt	gccccccgta	gatgtggctt	ggagccctga	240
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gtttcttctc	atggggccga	cagacggcat	ttatgttgg	tcogtccgag	ccttctgggc	360
acactccaaa	aaaatggaat	cccaaagtgg	aggatatagg	aggccattca	atgtctcttg	420
tagtttccac	acttacgact	tgcttacagg	cagaggggaac	ccagtagagg	atttcgtagt	480
ctccggaart	tgacacgagg	aactgtgagt	ttacagacca	gtccaggtga	gtaaatgaagc	540
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tgcattacag	agaagccgac	ggttccatcc	tgtgtgaagg	gggaccaagt	cttttgtttt	720
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ggatgaaacc	aagagaactg	gccggtttct	c			811

<210> 125  
 <211> 456  
 <212> DNA  
 <213> Homo sapiens

<400> 126						
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tgtgttagct	tctgccgggtg	cagatacagc	tcctaccaca	gtaggggtgg	tcctcagataa	180
agcaggggatg	gcttctggag	tggaaagtggc	tcctgtctca	ctgggggtgg	tgtcagtttg	240
aaaggctgga	gtttcttgac	ggcagctggg	gtctgttggg	ctgggtatga	tgtcagcttg	300
aacagtcatg	gcctcttctt	ctgtttccaa	ttctgtttct	tgattttgaa	cttctctacc	360
ctcttctacc	atagcaggtg	gtagttgtaa	taaagtctga	tgataatgat	gtgtagtctg	420
tatcaaattgc	atgtacatgt	tgtatacaaa	gtttgc			456

<210> 127  
 <211> 292  
 <212> DNA  
 <213> Homo sapiens

<400> 127						
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tctggctggc	tttgtcaatg	gcctattttt	gatcttccact	gcttttttta	ttttctcaga	180
aggagttgag	agagcattag	ccctccaga	tgtccaccat	gagagactgc	ttcttgtttc	240
cattcttggg	gttgtggtaa	acctaatagg	aatatttgtt	ttcaaaaatg	ga	292

<210> 128  
 <211> 433  
 <212> DNA  
 <213> Homo sapiens

<400> 128						
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ttacgttcca	gagctgcctc	acagctagca	cagntccacag	gagattactg	tctgtccata	180
cccaccagac	acagaactga	acacccacac	accagttttc	aaagagggaa	cttacaatga	240
atgctggctg	cccagggcac	ccatgagtgt	atctgggnct	caagctggag	ttttccaggg	300
gagaaaagcct	gggaagcttg	gtggcaagga	agttgggnat	tgcccaccc	actgggaaag	360
gggttttctca	gggtttgagt	gaaaatcccc	ggttaggngt	cagccctttg	tgggaaacat	420
gggcacttttc	agt					433

<210> 129  
 <211> 372  
 <212> DNA  
 <213> Homo sapiens

<400> 129						
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tcgaaaaggtg	gccagaagta	tctcctgcgg	cccttctagc	aggtggctga	ccagcatctg	180
cactgaagaa	ccagcgttgt	ctgaggttgg	gccacccgac	ttagcaagca	caaaggtacc	240

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cccagatgga gaaagcatgg aggaagagac gectgggtcc tctgtgggaa tctttggatg 300
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aacttggaat gt 372

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<210> 130
<211> 528
<212> DNA
<213> Homo sapiens

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<400> 130
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atcgctctct cggggaacct cttccagcac caggaggaca gtaagaagtg nagaaaccgc 420
ttcagcctnt tgccccacaa ctacgggctg gtgctctacn aaaaacaaagc nggtctatga 480
gcgagggtnc caccacgagc cgtcatcaac agtgcangct acaaaatc 528

```

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<210> 131
<211> 521
<212> DNA
<213> Homo sapiens

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<400> 131
agaggaaatt gattagctat ggtgtaagtt ttcgggagag tcatctgaat gttgttatat 60
ccataagcaa tagctgcatc ttctacaata tcacatgcat ggataatgct agctctgggt 120
ggagggattt caatctcaat ctgattccca tcacctatga cttctgattt taaatacatc 180
ctgggtcagaa gtttggcaag attttctgga gtttctctga ttccaaacttt tttgttaatt 240
aggtcagctc tcaccatctc ctttcggtaa gctaattctg gaaaggatat tgattttcca 300
ttaggaaaaa ccacttcagc agcttcgacc gtaaattgat tctcacaata ttcactgaac 360
atgggtgacaa taatatcaag aactatnttt gccttagtaa agtcagttcc cgtgcattca 420
ataaaaaatat ttctagratn tactgttatt ctggaatgat ccccatatgat gatgggagggc 480
attgaaaaga cgacaccatt gctatcatag ataactggat a 521

```

```

<210> 132
<211> 429
<212> DNA
<213> Homo sapiens

```

```

<400> 132
gagggggaga cgggggagcag atgcctcaaa ggggggtcaaa gagaggggaa ggaaattgca 60
cataaataaa ccggatgatt ccaaattgcaa ggagtcctca gagcggagcg cggacgggctt 120
ttccggagtc ctgggtctgc atctggcgcc ttggccccctg ctactcgcg ctctcctcct 180
cctcctctct ctcctcctca ctgcttgagc tccagggccc agacgtgctg cggccagccc 240
gtccggcctt tgggttttctt gtcgttgctg ctactgtgc ttttcaagat ttctgtctgg 300
acagaggaaa ggcgagggcg agaaaagtgg aaagagaaat tcagagagga tacctgggtc 360
cacaccaacc cggagccttc tgccgcggag gagacagtga accagagagg aaaggatacg 420
atggggggag 429

```

```

<210> 133
<211> 442
<212> DNA
<213> Homo sapiens

```

```

<400> 133
tcaaaacaata acttgggtatt ttatacttct ctatactttg tagcaaatct ttttttgcgt 60
aattttaattt ataataaaact ttttaaatca catctctctc tctttttttt ttaaaatcaa 120
ggctcttttta tgcataaaatc ttttttttag tatattttag attaacattt aacatcccc 180
ctctgtgacg tataccgttg gatattcagg tattactgtg tgtgtaacag ctaaaacaag 240
agggaggagg gaaaataaaag gcagtgaact tggacggatg catcaacaac agcagataaa 300
gctaaccctt cagtgacctt agcagcatgt ctctgggaag cctttactct taccacagag 360
atttcctcag ccccttccct ctctccctcc tatectccaa acacaaagcc aacagtctgt 420

```

ccttttcgctt ttcttgagga ga

442

<210> 134  
<211> 913  
<212> DNA  
<213> Homo sapiens

<400> 134  
ttttttttcga ttccctctca tttattcctt gtggaaaaag aaaaacacaa atcttaaaaa 60  
ctaaagcaag tcagggaagc ctggaaagat acccagattt gataacatgt tagaaggaaa 120  
tccaggctaa ggaatctcat tttctagctt tgatctggtt gtcagtggg atggacttgc 180  
ccaagtgatg gccacagaa aggccaaatt tcttggtttt ctctcatcc tgtacctctt 240  
ttttcattaa gaatcttgc ttggaagtta ggtcaaagag gctgcttggg gcaaaatata 300  
gtggtgtctc attcccnnaa atatttttcc tttccccccc caggcgtttc ttcatecttc 360  
aggatttgaa ttcgggcgtc tgcctggagt gcccgaatgt atatgtcagt tgaggttcta 420  
agacttgga gccacagaaa tgcagaatgc cactctgaat tggccagaga atgacattca 480  
tgtccccgtg gatcccttgc agagagtaca tggagccact gccaccagtg gtgatggaaa 540  
gactgtcctt cttactccgg aaggggtcctt tgtcatatcat ggcagcgtta gtgtaagcaa 600  
actcttctat gaacactcgc tcaaacaccgc ctttccagaat ggcagggact cccaaaccac 660  
tgcagggggg actgggatat cacaaagggtc tgcggctttc cagcttcttt ttggtcagcc 720  
acaaatatct gggctcagat gggctttctt tattaagcag aacaagattc gcaggatact 780  
ggaaagtccc agggctcctt cagtttactt ggaagggcct tttgggaaaag aagggatgga 840  
aattatggga taaaggggct gattccacaa cttccttctt tttttttaa gccgggtgggc 900  
aagctcctta tgg 913

<210> 135  
<211> 750  
<212> DNA  
<213> Homo sapiens

<400> 135  
tttttttttt ttgtcattca tagtaaaagt ttattgaaca gaaaaccacg caaagggtttt 60  
cacctccgca aagttccccc tagtttaaaag taaagcactg cattttaaaa agcaattata 120  
cataagtctt tccctagaaaa gtccctgctaa aacatgtcta gcaatttcat tgattatata 180  
aagttagtaca cttagtgtaa tttaaacatt ccaacaggaa tcaaatcgtt ccagcagaac 240  
caacttctgca tctatgactt ctatgtacaa acacacatgc agacacacac atttggaaaa 300  
gttccctcaag catagacatg caacaccta ggccttctac gtacagtgtt tattaaacta 360  
catagagtat atattaaagc tcttcagaat aaagacatga gaagccttgg gcattntttg 420  
ttcaccaatt tgtatcacgg cttcacgttt ctgcttttgc ttgctcacia aagcatatca 480  
tcattccacac tgtttttttaa aaactcatca ttgccatgtc caggagaggc aatctagctg 540  
gagtcagggtg atccagtcca ttccctgtcaa agcctccaac agctacagca caaacaccat 600  
cagtnctgca tggctggggg gccttctgga agaagagagg caaagaaagt cttgaagaca 660  
agccatgctg tgcctcataaa ggaggggctg gtctgctcgc catctagtag atccctgtct 720  
tggagggagg tgggttgggg tttccatttc 750

<210> 136  
<211> 348  
<212> DNA  
<213> Homo sapiens

<400> 136  
aaaacgacgg ccagtgaatt gtaatacagc tcaactatagg gcgaattggg cccctctagat 60  
gcatgctoga gcggcccgca gtgtgatgga tatctgcaga attcggcttt tgacaccaga 120  
ccaaactggta atggtagcga ctggcgctca gctggaattc cggctgggac taccgggtct 180  
cactccagaa gaggttctt cagagcatgg tagtcttggg gttctaagag aatgagagta 240  
gaagctgcaa aacctcttga aactggggct tgggagtcac acatgacttt ctccacattc 300  
tgttcgtcaa aagcgaatca taaggacagc acagactcaa gggataag 348

<210> 137  
<211> 505  
<212> DNA  
<213> Homo sapiens

<400> 137

aaacgacggc	cagtgaattg	taatacgact	cactataggg	cgaattgggc	cctctagatg	60
catgctcgag	cggccgcccag	tgtgatggat	atctgcagaa	ttcggctttt	kacaccagac	120
caactggtaa	tggtagcgac	cggttctcag	ctggaattcc	ggattgggtcc	aattgggtat	180
gaggagttca	gttatatgtt	tgggattttt	taggttagtgg	gtgttgagct	tgaacgcttt	240
cttaattgggt	ggctgctttt	aggcctacta	tgggtgttaa	atcttttact	ctctctacaa	300
ggttttttcc	tagtgtccaa	agagctgttc	ctctcttggg	ctaacagtta	aattttacaag	360
gggatttaga	gggttctgtg	gggcaaatct	aaagttagaac	taagattcta	tcttggacaa	420
ccagctatca	ccaggctcgg	taggtttgtt	gcctctwcc	ataaatcttc	ccactatttt	480
tbracataga	cgggtgtttc	ctttt				505

<210> 138  
 <211> 513  
 <212> DNA  
 <213> Homo sapiens

<400> 138						
agggccgagt	ggaggtgctg	gtggagagaa	acgggtccct	tgtgtggggg	atgggtgtgtg	60
gccccaaactg	gggcatcgtg	gaggccatgg	tggctctgcg	ccagctgggc	ctgggattcg	120
ccagcaacgc	cttccaggag	acctgggtatt	ggcacggaga	tgtcaacagc	aacaaagtgg	180
tcattgagtgg	agtgaagtgc	tgggaaacgg	agctgtccct	ggcgcaactgc	cgccacgacg	240
gggaggacgt	ggcctgcccc	cagggcggag	tgcagtaacg	ggccggagtt	gcctgctcag	300
aaaccgcccc	tgacctgggtc	ctcaatgcgg	agatgggtgca	gcagaccact	tacctggagg	360
accggcccat	gttctgtctg	cagtgtgcca	tggaggagaa	ctgcctctctg	gcctcagccg	420
cgcagactga	ccccaccacg	ggctaccgcc	ggctcctgcg	cttctcctcc	cagatccaca	480
acaatggcca	gtccgacttc	cggcccaaga	acg			513

<210> 139  
 <211> 340  
 <212> DNA  
 <213> Homo sapiens

<400> 139						
tttttttttt	tttttgaaat	gagtaaattt	atagctttat	ttgcatacag	aaaagtgcac	60
gagaaaaataa	gtatgtacaa	aacagttgtg	tggctgatca	tgactttcaa	aaattcaact	120
acctagaaat	agttacctcc	agtttagcac	atttagggtat	ttggacattt	aaagtactat	180
ttcaagtctg	tgtttatagt	gactgagtag	gaagctgata	gaaaattatg	ccatatatga	240
tcaactatta	ccattaaaca	taaaaccaca	ggactttcta	cttggggcta	atcaatatag	300
ggtcatgtgg	ccccctgtctt	gttttagcttc	tgagcatcac			340

<210> 140  
 <211> 334  
 <212> DNA  
 <213> Homo sapiens

<400> 140						
ggcctttttg	ttccagaaaa	atagagggga	tctctgtgga	gcctcttttg	tttttcatca	60
attctggggc	tattaaaact	agccattcat	ctaacgaggg	ccaaagcaat	tccagaggct	120
tgaacacctg	gcttttttgg	gtttttattcc	cattgtagcc	catatcaatt	ccattactgg	180
gggaggatgg	accaattcga	aagacgtgac	aaaacattct	cacaatcctt	aaaaggctct	240
tcatttgagc	atcataattg	ctagagaggg	taagcagttt	atgaccattt	gttgtagcaa	300
cttcagcaag	gcttggttaga	atcttttaggt	actg			334

<210> 141  
 <211> 497  
 <212> DNA  
 <213> Homo sapiens

<400> 141						
tttaagggtta	cacgattatt	tattgagagc	ctcctctccc	cgcccttgca	atctctaggt	60
cactttctcc	gcttgtagat	tttgccgcga	agccccagaa	agacggctgg	gggcaggggt	120
gctgcgtact	gttcaatgag	agccataatg	tggctgtaac	tgtcttccctc	atattgcaag	180
aacactgctg	gcagatccag	ctcctcatat	agcgccttca	cccgggccac	tttctcagcc	240
tcctttctgcc	cgtaattttc	cttcaggatc	tggtaactgtt	ctggagtggc	ccgttgcaga	300

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cactgaacca ccagccagct gcatttgggtg tcttggatgt cagtgcacaat tttgcccgtc 360
acactgggggt ccccaaaagag gccaaggtaa tcatcctgaa tctgaaaagaa cccccccatc 420
tccagcagga tcttcttggc attggcgtgc tcttctctgc catcaattcc tgccatgtac 480
atggctgcag ctatagg 497

```

<210> 142  
 <211> 353  
 <212> DNA  
 <213> Homo sapiens

```

<400> 142
tttttttttt ttttagagat tgttgtgact tttattcaat ttgaaatccg gattaaaata 60
aaagcagtga gagcaaagct ttacaaatat tacattacta cgtcattgat atggcctttta 120
cactgattgg atacaggaaa aaaaaaaacc taacattaga attaaggcag taacaacatg 180
tgcaaaaccca gcacaccccc tgacagtctt cagtagaaaa ctactctggg caggtgggat 240
ctgacatggc tgcattgcagg tctcattgca tgggaaggata ggtcctgaag agcttcattc 300
cttaaaagggg aaaaggaccc ttctcactgg ccaacgatgg ccaggagcag ctt 353

```

<210> 143  
 <211> 559  
 <212> DNA  
 <213> Homo sapiens

```

<400> 143
atgcttcaca cttgggtttgc ttatatgtat catttaaaaa gagatattaa tcttacctat 60
tgccatgaat atttcattta cattcattga tgttttagcg gatgtctcca tgaataataa 120
actattgtca tctgcatagg actgtgcttc ctggaaatct actgctcttt tatttgctag 180
gtcggccttg tttcccgata aagctattac aatgttagga cttgcttgcc totgaagttc 240
tttaacccaa ttttttgctc ttgcaaagga ctctcatttt gtgatatcat atacaactat 300
ggctgcttgt gctcctctgt agtacattgg tgctaggcta tggatatcgtt cttgaccagc 360
tgtatcccat atttcaaact ttactgtagt gtcacaaaga catcacagttt ggggttagaaa 420
agcagcccca atgggtactct cttgaaatca tgacattggc tttcacaaaa caagcactag 480
gcttgatttg caacagcgga ctctcccaga gtactagtct gaactgcata tntattttcca 540
gtattggccc cgtgggtct 559

```

<210> 144  
 <211> 572  
 <212> DNA  
 <213> Homo sapiens

```

<400> 144
ttttttttcc ttttaaatgc ttctttttatt tcattgggtg tacattgggt gagtgaactg 60
aatattacaa ccaaaacata gtattgatac aaattagact cctgttttaca ctgtaaggta 120
atgaatgagg gaattcttta agtggttacag aaagatttag tagaaatgtt accagtggtta 180
tggctgaaaag aatatttcgg tgaagtgtcg ttatatcctg aaaaccaaga gtgaaatgta 240
gttcccatat aagtggagag ttagtctctt aactacagta tttgttgaaac tgatatcttc 300
atgtcttgga tattgggtgat ttttgttttt taattaaaca aagcatttaa gatttattca 360
tcatagttag acttctgaat ataaacaaac ttttggcaaa taatattttat acagaaaaat 420
agtttttagat cctctcaaat cccagaatta ttctataaaa ttacattata aataaataaa 480
aagcaaaatc tgttgtacat atatttgtac atctatgcat ttgccttgcc tctctcttat 540
tgtaaatggc atattttatga ctctttgcat at 572

```

<210> 145  
 <211> 402  
 <212> DNA  
 <213> Homo sapiens

```

<400> 145
tttttttttt ttttttgtct taagggaagtt ttttggcatt cttttttttt ttagattaca 60
acacacatac aataagtgaa ttttatcaaa atacagcaca tttctctctac tatatccata 120
aaaatcaatt cctatgtaaa tagtactgaa aatcaactaa aatgagttaa aatttacaaa 180
gagttgttaa aggggtttcaa tcaaaaattat taaaactata cagtacaata accaattgat 240
aacatcttga aagaagtgc atatttgtat tcacatatct ttaaaaagtc tgccacttta 300
ctctgactag caagaatgga aagtgagtc aactcacttt tgcaaaaaata atgttgggtg 360

```

gtgttttaag ctagtcttat aaaagtctta attaaaaatca ag

<210> 146  
<211> 482  
<212> DNA  
<213> Homo sapiens

<400> 146  
agtagaaaaca aagtatgttt aatgggttgc ttggaaaggga gaagtgggca cctcatgcc 60  
gggagatttta aaaatgagac ttttcaagca agcaotgcct atagcatagt ctcatatctt 120  
gaaaaatttaa acctaatctt aattatata: aaagaactat tttaaaaaat cacacccaca 180  
agtaaaaaaac tggtaatctg tttacaaagt gcagcgtcag tacagcaaac tcatctcaac 240  
aaaagattat gtgtgggtttc tcgggcttta aaactccctt ggtctccatt taaatgcttt 300  
aacattgagt catcctgcat acatgaaaag cctgtgtaat gaagcctggg tcccttaaca 360  
cctgctatta attaatcca acataagtga gtatgagacc tgnagaagtaa attgtcatca 420  
tctgattgat gaggtacaga ttatctgaat aaaatttctg acctgggtat gagtccagtaa 480  
tc

<210> 147  
<211> 489  
<212> DNA  
<213> Homo sapiens

<400> 147  
tttttttttaa cattcctaag tttctttatt ctccatagtt ttctaatagaa caaatagtta 60  
gttttccctga gtaagattat aaaaaagtta accattcttc caaaagtata aagacaaata 120  
aaatgtcgac tcataatata aattttttac atagcattaa aggtgcagat attgactgcc 180  
cctcttcatt atgattggcc caccctttaa aaagactgca acagaggatt caattgtcta 240  
aaataacttcg aagtacagaa attaaatgct ttagcccata aacatatccc tcatctattg 300  
tggtgctagg gaacacatga gcaaaaatcta tcattcgcac ttctacttca gcaatctctt 360  
ggcaaccagt gggaagatgg tagaaaactt tntccagttg ggaaagtaca tttccattta 420  
aatgttccctg tgacatgctt tttccacccat tgtcttgctc cagattttca accttcaatg 480  
aagttctgac

<210> 148  
<211> 372  
<212> DNA  
<213> Homo sapiens

<400> 148  
tttcaccttt taattttata ttatttgcgt catatcttc ctgtaacgga agtggttaatt 60  
ttactgtact ttttgggtacc ttttgggaat ctaatgtatt gtaagggtatt ttacacgtgt 120  
cctgattttg ccacaacctg gatattgaag ctatccaagc ttttgaaata aaatttataaa 180  
accccccaagc ctgggtgagt gtgggatatg ctgtgtgaga cctcttgctc agggctcgagg 240  
gaggcgngggg ggggngnnnc cnnnnccct nnacttttnc cttcttctgc nncangctct 300  
tccagcttga ggcccagttg gggggtatcc ttttaaggact gccttgccca gggctggggc 360  
cccccttcaa ga

<210> 149  
<211> 491  
<212> DNA  
<213> Homo sapiens

<400> 149  
gttttttaaaa caagcaaatt ttatttaaagg aaaattttgc aggttttaagg tttgcagggtg 60  
aaatttttga ggtgaaaagg tttacttttc accagtctgt tctggcatgc ttctaatagat 120  
gtcagagtca cctggatcaa tgatagccag tgtgcacact ctgtagtatt ttccgcatgc 180  
tgtgcccagt tcaatattat tggcactgta gtgatggaca ccagtttttag ccaacatagc 240  
atagttactt atttcagatt tccctcaaagc tgggcagttg ttagcgagaa tgaccaattt 300  
cgcttttgct tgtctgatca tcttcagagt ctgcttgtag ccagggacgt acttccact 360  
tttcataacg agttggagcc tagagttgat cgactccagc gactttttcg tcttctttgc 420  
ggccaccatc ttcctgctt aggagcggga cggcccccaa cctagaagag acagagaaca 480  
ggacaggaat t

<210> 150  
<211> 455  
<212> DNA  
<213> Homo sapiens

<400> 150  
catgttttaac ttattattat tgcaaaagaa cagtttttct catgattagt gaaatagaaa 60  
actcacaata tacttaagag tctgcaacaa gttacataga atcagaggca cttcaaaggc 120  
ttaaaaagac gtttacaact taaatgcatt ttaagaaca aaaactgatt tttctttaaa 180  
cctctactcg taccttcaaa ttgcaagaaa ttaacaaata cagtgcccaa aggaatctgc 240  
agcaacttct taaaatactg ttaacatctt tgggtttgct gaggtctgtc agtaacttac 300  
atcaaatcct cccaaaagaa gatctgatta gatagatatg actaaacggt tttgtagtaa 360  
taatccaatt ttacacatta atttgctgtt gcaaactctc ccaaagctac aggtaatgaa 420  
aaataaagca agtgtaaaat ggatagtctg acact 455

<210> 151  
<211> 465  
<212> DNA  
<213> Homo sapiens

<400> 151  
agcttgtcga cgctgtcgca ggggtggatc ctgagctgcc gaagccgccc tctgtctctc 60  
ccgctgtgggc ttctctaatt ccattgtttt ttttagattc tctcgggcct agccgtcctt 120  
ggaacccgat attcgggctg ggcgggttccg cggcctgggc ctagggggctt aacagtagca 180  
acagaagcgg cggcggcggc agcagcagca gcagcagcag caatctcttc ccgaacacga 240  
gcaccacagg cgcccgaaag ccggaacagg cgtttagaga aaatggcaga cgatattgat 300  
attgaagcaa tgcttgaggc tctttacaag aaggtgagaa aaaacatgtc ggtgaggttt 360  
atatatttct taatttagca ttattcacga aactactgct gaaatgtaaa ctaaccttcc 420  
cggagccctc ttgattttat ctattagaga tgccttacct tgtac 465

<210> 152  
<211> 386  
<212> DNA  
<213> Homo sapiens

<400> 152  
tcctttcttag ttttcttccc aaatggttcc tcagcccccag tgctggggccc tgaaataggc 60  
ccagctccct gtatagttcc cacagagctg gccacaccat aagtcagggg caaactggaa 120  
ctgtgggaag gagctgcagc ctgtactttc ccttcagtta gagcctgaag ctggaggagc 180  
ttcttttagca agtaccttct ttcttctttt gcttttaagaa atttttcttc aagacgagca 240  
attttcatcac aaatagcagc attttcaaac accgtggcct tggccgcttt gcgcagccgc 300  
aggtaacttca gccggtaact ctcatctctg ctcttcttcc ggagcttttt catcctgggc 360  
ttgctgggact gcancggagc ccgcggtt 386

<210> 153  
<211> 601  
<212> DNA  
<213> Homo sapiens

<400> 153  
tttttttatt ggcttggttt ttatttctat gottataaaa aaaatatgaa gotttctttgt 60  
gtggactgaa ggggtgttag cctgtggatg ttgggtcttcg gtgcctgtac cccagtggct 120  
gtttacattc caggccctcg ctaaaataag caggctccac tgccagctgt ctgtacactt 180  
tttcttgggg gaagagttct tgtcttcagt ttactgcagt aggggttctg gctctgttac 240  
atgctcatgt gttccggaag aacatatgaa atatcatccc acggatgacg atacagcccc 300  
tgcttcagcc tcttctgata aagatagtgt ccaatgaacc ccatactcct tcccagcaca 360  
aagatgccat tgagggctcc aatgtcaata tattcatcag ctctctcccg agtaaaaggac 420  
ccacagtttc taagcatgtc taaaaatgcg actccgatga gaccatctac attcaggata 480  
agatttggct tcttcgaggt gtaattctct ctacttccag tgcataaaac gagcagagag 540  
tggccangga gtgctgcccc gcgtaattct ttgagatctg cactcgcatt ttctgggtgt 600  
t 601

<210> 154  
<211> 340



<212> DNA  
<213> Homo sapiens

<400> 154  
gcgtttttcat actcttttatt gccaacgggt taaaatgggt aacataaaaa aaaaagacat 60  
tttgataata aatactgctc tttgggctgt aataaataaa aagtttttta acaagggaatg 120  
caccttttcca gccacaagta tcttcaaaaa ttaatgaaaa aaaattatat atggccatag 180  
ttcacagtta cgcagccaaa agctgctcca attacagcct ttaaacaaca tgggagcttc 240  
ctcccttctc cctccctctc aggaagtata ttcacagtto caaagtcttc tggctgaaat 300  
gctctcaaca gagagaattt aagaatcaat gcacctttct 340

<210> 155  
<211> 759  
<212> DNA  
<213> Homo sapiens

<400> 155  
cctgggtccta ctttcccttc ctcatcttcc tttttctcac tgtctgaact ttcctcactg 60  
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cctttgtatt catgtgtgta cagaggcctg aaggagtcac tgaagccac atcagcagtc 180  
agatttggga agaaccacaaa gtgggtgcct cctccagtta tgagccaaat gatgagaaat 240  
agaatgcac gagcaacagc aaggagaaga atactggcta caaaacagcc tgcacccaca 300  
ctgaggtaat aaacacctac tctcatcttct gctggccaaa gggggaagag ggtggccgct 360  
attactgcaa tcacaagaat taatcccatg acaaatgttt taaagtgaac tgggtcatag 420  
atccatacat acacctcatt tccatccaga aaaaactgat catcatgttg ctaagtttga 480  
attttttcta gtttcccttct tttntagat tccctgagtt tcttcccttt tgattcttct 540  
tttccaccatc ttttntttct ctttttcttt ttttggctct catcccttat atttntctct 600  
tgcctctttta tcttctcttt tcactntcag ctttccctta tcttttcttt tctatgctt 660  
atcatattca ttccatactt tagggggctg tgaaaaactg ctctaaaaac tctgtgagtc 720  
accacaannt cccctgtgaa taagtntctt cttctgctt 759

<210> 156  
<211> 703  
<212> DNA  
<213> Homo sapiens

<400> 156  
tttttgagaa tacacagggg gcttttattat acaaaatggc ggggtggggg gcggcaagca 60  
gcggatggca tcaaagaggg gagggtaggt catgctggca acaggaagca acttcttagc 120  
cagggccggg gggcggtgtg ctggctggaa tctcccttgg gtacatggag ggtgccagcc 180  
ggctggacct gcagaccag gaagcgagat gggacgccta gggagccggg ccccttcca 240  
caagcacctt ctcatacttc ccatgcccgg tggccacaaa cttataacct tccacagatg 300  
gggtgctctt aattgttgat gaggtcttgg agcctccctt ctgctcccag aggtttttct 360  
tgctcatgtc tccagccaca atatccttgc aggacggagt cttggccgca gactgagcct 420  
gtacctcacc cgtctccac cgactcttgg tactggccac agccatgctg ggcagctcta 480  
tggaggcctg gcngggctag cttggggctc ggcccagcgt ctggaatggc ctgggtgtatt 540  
gttccagcca ctgatcaatc ctggagatgg gcaagtcttg cctggatttc ttcacactgg 600  
tactcttctt tattggagcg ttttaggggac tgcctctgtc natgaagttg gtgtnggctc 660  
caggggaagcg agctctggct gatgtccctt caaaaaccaag ggg 703

<210> 157  
<211> 757  
<212> DNA  
<213> Homo sapiens

<400> 157  
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gttcagcttc tttctccttc actctcataa caaacatttg tctcatcttc tcttctttct 120  
tctgcagttc tcccaggaat tcattctctt ttgcttcata tgcctcctga agactgaagg 180  
gtttgctgtc agggctcagt tctttgaacc ccatctcttc aagcttacag cgtcggta 240  
attcatagtg gcgggtgtga gtctgctctc gcaagtcttc catgttcacg cggatcagca 300  
tctctcgaag tttcacaaaa tcgcaatgat tctcattctc aacctgcacc acacccag 360  
ggtaactgct ggcttttgc atcttgttgc caatcttcac ctcttcgggt ctgccaacca 420  
ctgcaaatgg gagatggaca ctcattgttg cgttaatctc tgccaccgtt tcttcatcag 480

tgaggaaactg	atatatctgg	accccatctgc	tgaccagttc	actcatgac	ttactcttga	540
atntgtgcag	ttcattcttg	gcaatgtgtc	agcttttgc	aataatggga	atgatgtcac	600
cttactgtcc	agctttttca	tggtgaccag	atcccaggga	ccttagtgan	tgtcagtang	660
gggcaataag	tagaggcaag	gcatgaatcc	tcgtgtcatg	gtagtttgag	aagagaccgt	720
taaatctcat	tttntctctc	ngtangccct	cgaactg			757

<210> 158  
 <211> 455  
 <212> DNA  
 <213> Homo sapiens

<400> 158						
ggaagtaaaa	aaacctgttt	caggcttcat	ttattgctac	ataatgacta	cttcaagggg	60
catctggccc	gtcgtcagtc	actcttagaa	gtggtaaata	cagtgggata	gtttggaagg	120
aaaggaggaa	aaaaataatg	cattgtgata	caaaaatatt	acctacatat	aaattattaa	180
agattttata	aacattcaga	atatgtttct	gctataaaaa	caatatactt	aaatatagaa	240
gcaaaaaagt	ctgaagcacc	cgcaattatt	ttaatatcca	tttaatcagg	gaaaaactata	300
tatgtggata	tataatacat	acatatgtaa	taatttgaga	agaaaaaagg	caaaattctg	360
attataatcc	aaaaagagtt	tatctaatta	tggaggtagg	tctccactcc	aattatacaa	420
ataagttatc	agtttttatt	aaagaattat	aagtc			455

<210> 159  
 <211> 486  
 <212> DNA  
 <213> Homo sapiens

<400> 159						
tggttttctt	cagcgcagct	cttgtctgct	ctgaagaaaa	ttcttgcact	gctcagtgag	60
aaatacagca	attcaaatcc	ctgtagatag	acatccagtc	gcttctgagt	gagattcatg	120
gtttgtaaga	gtttttcatt	ttgactggct	gactgtacat	tctgttgctt	agcaactgct	180
cttatctcct	tcagggtatt	ctctctaaca	gactgggaacc	agtgaagtga	atcaaacctcc	240
cgatactgat	ccaaaagctt	tagaatgtaa	gccacaccca	tggaactaat	ggaatgctct	300
aaggcagctc	caatttttatt	tttttttatt	aatttttcct	ttcgagatg	tatatctctt	360
acaaagtgtg	gggtcagagg	gggaacaatt	atatagaaat	tgaaatattc	tgtgccttcg	420
ggccttcgaa	attctggagc	aaaaaacgtc	acaagcattt			486
gcagaa						

<210> 160  
 <211> 638  
 <212> DNA  
 <213> Homo sapiens

<400> 160						
ggggctcctc	ttcactttct	ttatcttcat	catctgaaga	ctcttccctg	tttttctttt	60
catcttccat	actactagat	tcattctgaca	gaatttcagg	acatttggtt	cgcttagcct	120
taacttgccat	tcagaaactg	ttccggctct	ttttactgcc	tttgcataaa	gacttttttaa	180
atttcggcaa	tggttttgca	gaacgctttg	gatgcattaa	gaaattcaag	atcctcttca	240
ctagttcact	atttacacct	gatctctcca	aatcaagaac	ctcacagatg	ctcttttaaca	300
tggtcatttt	aaactttttc	aacattttct	ccttcttttt	atattggaca	cttctctttt	360
caaatggaaa	gccactgaac	tgaccacat	tcttctttta	tgaggacaca	cagcctggcc	420
tgttgtaaa	cacttttgtg	acatatctaa	gatcatccgt	tttcttctta	cttagaaaaa	480
catgtatgct	ctcaatttca	caaagcgtct	gccgctttcc	ttgctgcatt	gtaaaattgct	540
ctctctgcag	ggagagacgt	gcattggcac	ctctctactt	tttcttttcc	ctcttgccct	600
cccgaagaa	cctttttttt	tcttctctct	cctctctc			638

<210> 161  
 <211> 845  
 <212> DNA  
 <213> Homo sapiens

<400> 161						
gaattcggca	cgagcctgtc	tggaggagtg	gtagtgagtg	ctatattctt	cattttgtct	60
gccaatatct	tatcatctcc	ctctaagaga	ggacaaaaag	gtacccttat	tggatattct	120

cctgaaggaa	cacctcttcta	taacttcatg	ggtgatgctt	ttcagcatag	ctctcaatcg	180
atccctaggt	ttattaagga	atcactaaaa	caaattcttg	aggagagtga	ctctaggcag	240
atcttttact	tcttgtgctt	gaatctgctt	tttaaccttg	tggattattt	ctatggcgtg	300
ctgaccaata	gtctgggctt	gatctcggtt	ggattccaca	tgttttttga	ctgctctgct	360
tnagtcattg	gactttttgc	tgccttgatg	agttaggtgga	aagccactcg	gattttcncc	420
aagggtacgg	ccgaataaaa	attctgtctg	gatttatnaa	tgggcttttt	tccaaanagn	480
aaanagcggg	ttttgggggt	angggagnca	agnggcaaga	tggattggan	ccccaggaa	540
ttaaggcnnc	ccacannnga	aacacccagn	nccanttggg	ggngnnnaa	nnaaacctn	600
antgggacnn	gggnccctna	nccaaggccc	aagncangcc	caggggggct	cncaagggg	660
agnngcannc	aaanngggnc	aaaggncctt	caaacncann	ggnggggnca	agggaccng	720
ggggnggggg	aaccncgggg	tnnggggggg	gngnaaaaac	caaaannggg	gggnatccca	780
aaagggttgg	aaaaacntg	gnaaaaangg	ggnnccgnnc	aaaggccnaa	aaangngtgg	840
ggggc						845

<210> 162  
 <211> 496  
 <212> DNA  
 <213> Homo sapiens

<400> 162						
tgttaatacct	cctcatcttt	tcttctttaca	cagtgtctga	gaacattttac	attatagata	60
agtagtacat	ggtggataac	tcttactttt	aggaggacta	ctctcttctg	acagtcctag	120
actggtcttc	tacactaaga	caccatgaag	gagtatgtgc	tcctattatt	cctggctttg	180
tgtcttgcca	aacctttctt	tagcccttca	cacatcgcac	tgaagaatat	gatgctgaag	240
gatattggaag	acacagatga	tgatgatgat	gatgatgatg	atgatgatga	tgatgatgat	300
gaggacaact	ctcttttttc	aacaagagag	ccaagaagcc	attttttttc	catttgatct	360
gtttccaatg	tgtccatttg	gatgtcagtg	ctattcacga	gttgtagatt	gctcagattt	420
aggtttgacc	tcagtcccaa	ccaacattcc	atttgatact	cgaatgcttg	atcttcaaaa	480
caataaaatt	aaggaa					496

<210> 163  
 <211> 491  
 <212> DNA  
 <213> Homo sapiens

<400> 163						
taaggattaa	aaacgatttt	aattatacac	atatgggtcac	aattttgcct	taaaaagatt	60
gttgggaaat	gtacataagg	ccgcttgtta	atgtacatcg	tgttactggt	atgtcttatg	120
tccagaggaa	aaaatgttat	catacagatt	tgctcttact	tgggagtagg	ctattcaaaa	180
atacagtact	cttctgtaca	aagaaaaaag	tcacatcaca	tttaataaga	tgaaaaaagc	240
attgggcctcc	atggtaacca	aatatctcag	ttcaataact	tctattatgc	acaataacct	300
gacttcaatt	gaaagtgtgc	caaattctag	caggtccata	ttaacagtca	acaactatgt	360
tataaaaaaa	aatgatctca	caataataaa	aagaaagctg	gttcataact	ctgaaaccat	420
ataaagataa	aaaattttta	aaaaatcact	ctcgatttgg	agaaataaat	ttacattata	480
caacactata	t					491

<210> 164  
 <211> 457  
 <212> DNA  
 <213> Homo sapiens

<400> 164						
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tgtggggggca	agagtcacca	ggtgggggaca	gggaaagtgt	tgaagcctgg	ccactactgg	120
gcagggaaga	cagagtgtgc	actgtatgca	caggggatga	gcagctgccg	gtactccagg	180
ggcaggtgcc	gctccactag	cacgtgcagt	gagacttggt	cagtgaccag	gccctgccgc	240
cgcatacgca	gctccaggtc	ctctggcttc	acagtcttgc	ggccagcatg	agcagcaaat	300
acctccagat	catcacaaaag	atgctggaaa	tatttatcta	ggcacttctc	cacctcttca	360
agagccttcc	tctccatggg	catcttggca	tagaagctaa	agagtttccac	atagtggctc	420
agtccagcct	tgtggggatc	ttgcggngc	ctgnggc			457

<210> 165  
 <211> 477  
 <212> DNA

<213> Homo sapiens

<400> 165  
ttttttttttt ttttagtttt cttcccaaat ggttccctcag cccagtgctt gggccctgaa 60  
atagggccag ctccctgtat agttcccaca gagctggcca caccataagt caggggcaaa 120  
ctggaactgt ggggaaggagc tgcagcctgt acttccctt cagttagagc ctgaagctgg 180  
aggagcttct ttagcaagta ccttctttct tcttttgctt taagaaattt ttcttcaaga 240  
cgagcaattt catcacaaat agcagcattt tcaaacaccg tggccttggc cgctttgcgc 300  
agccgcaggt acttcagccg gtactttctca ttctggctct tcttcgggag ctttttcctc 360  
ctggccttgc tggactgcag cggagcccg ggcgaggaag cgaggccgtc cagcaggctc 420  
atggtccagc cccgctacgg gggcccccagg acgctgccgg catcggaacc taagtgc 477

<210> 166

<211> 468

<212> DNA

<213> Homo sapiens

<400> 166  
gagaagacga cagaaggggc tactgcggca gaaccagagg gccctgaacc gtgccatgcg 60  
ggagctggac cgcgagcgac agaaactaga gacccaggag aagaaaatca ttgcagacat 120  
taagaagatg gccaaagcaag gccagatgga tgctgttcgc atcatggcaa aagacttggt 180  
cgcgaccggc cgctatgtgc gcaagtttgt attgatgcgg gccaacatcc aggcgtgtgc 240  
cctcaagatc cagacactca agtccaacaa ctcgatggca caagccatga aggtgtgcac 300  
caaggccatg ggcaccatga acagacagct gaagtgtgcc cagatccaga agatcatgat 360  
ggagtttgag cggcaggcag agatcatgga tatgaaggag gagatgatga atgatgccat 420  
tgatgatgcc atgggtgatg aggaagatga agaggagagt gatgctgt 468

<210> 167

<211> 399

<212> DNA

<213> Homo sapiens

<400> 167  
tttttttttc ttaggtttat aatcagcatc atcctcatct cgaggctctct ttaatggctt 60  
tatatcctct ttaggaggaa caaaatagcc atcatcttca ggttcatctt taatttgttg 120  
tggactagag aagccatttt ccttctcctt ctttatcttt gcatccccag aggcctcgaac 180  
cttttctctt ttctgttttt ccttgcctct gtctttatgt ttgtctttat gcttttctga 240  
gcttccatct ttgtgttttg tcttctcctt ctctttgtgt ttcttttccag aatctttatg 300  
ttcactgttg ctatgcttgg acttttcccg gnccttctcc tttctgggtt cttttgngcc 360  
gnggtctcga tcttttgggt atttttgtgt tatgagaat 399

<210> 168

<211> 557

<212> DNA

<213> Homo sapiens

<400> 168  
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caagcggggc aaagccaaga ccaccaagaa gcggccacag cggggccacat ccaatgtctt 120  
cgcaatgttt gaccagtccc agatccagga gtttaaggag gctttcaaca tgattgacca 180  
gaaccgtgat ggcttcattg acaaggagga cctgcacgac atgctggcct cgctggggaa 240  
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caccatgttc ctccaccatgt ttggggagaa gctgaacggc acgggacccc aggatgtgat 360  
tcgcaacgcc tttgcctgct tcgacgagga agcctcaggt ttcattccatg aggaccacct 420  
ccgggagctg ctccaccacca tgggtgaccg cttcacagat gaggaagtgg acgagatgta 480  
ccgggaggca cccattgata agaaaggcaa cttcaactac gtggagtcca cccgcacct 540  
caaacatggc gccaaagg 557

<210> 169

<211> 564

<212> DNA

<213> Homo sapiens

<400> 169

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tctgtttt	ctcaaaactc	ctagcaccac	agaaggagta	cgtaaaaagg	taatggaaat	120
gctgggtccat	ctgaataaaac	gtataaaaaag	ccgccccaaa	atacaacttc	cagtagagac	180
actgttgggt	cagtaccagg	accctgctgc	agtttccctt	gtcacaatt	ttactataat	240
ttatgttaaa	atgggtatc	ctcgccctacc	agtggaaaaa	caatgtgaac	tggccctac	300
gcttttact	gccatgggaag	ggaagcctca	gccacagcag	gtagcttaa	tgcattctt	360
aataccaacc	ctttttcaca	tgaaatcccc	tggtgaatca	tcaaaatcag	cttctccatt	420
taatcttgc	gagaaaccaa	agactgtgca	gctgcttttg	gacttcatgc	tagatgtcct	480
tctgatgcct	tatgggttacg	tgtraaatga	atcccagagt	cgccaaaatt	catcttcagc	540
acaggggtct	tctttcaaca	gtgg				564

<210> 170  
 <211> 457  
 <212> DNA  
 <213> Homo sapiens

<400> 170						
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taaagtgata	acatgcttct	acctgtattt	ctagtgaacc	tttagcgcca	ggatattata	120
cctgggtatct	atgatgcagt	atataagtgg	tgaacaataa	ctgacagtat	tgtgcttgc	180
gtacatgtct	gggtcttttga	aacagatttt	agtaagcatt	ttccagaggt	aaaactgtgt	240
ccttattcta	attttattcc	tagggcaaaag	tagacagggg	ttatttccct	gaatctattt	300
ccaaattaat	atttttttct	ttgggtatttc	tacacttta	ggccatttgg	tgcaattttg	360
aaagtgttgg	cctcccttcc	gctagccaca	ttcanaatta	acctccaaaa	cctcaggaac	420
agtacaaaga	attgaaaccc	tcaatatggc	agcacag			457

<210> 171  
 <211> 527  
 <212> DNA  
 <213> Homo sapiens

<400> 171						
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tacacgaaat	aaacttatgt	ctgcaatact	cagccttaaa	ttcacccctc	acttcagaag	120
aggtcccagg	ggcaggaata	acacgcacag	attgtttggt	cacgacttcc	agccggtcca	180
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ggaaatcctc	gtcatcccag	gggaagtccc	cccttctgca	tccgcctcca	ccaggcaacg	360
ttatcctgct	tccctcctct	cctgcctccg	tctcctccag	actcagcatt	ctctagttca	420
ccagtctctt	tgggtgggtt	tgaacacagc	caccaggaaa	ataacgtcgg	tcttgctgc	480
agagtcagct	tctgaacgtg	gatccccctg	aagcactgga	acaggag		527

<210> 172  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 172						
cggcacgagg	gacaacgcag	cctgataaac	aagtggacga	cttttcttaa	ggccagactg	60
attttgctcaa	ttcctggaag	tgatggggca	gatacttaact	ttgatgagct	tcaagatatt	120
tattttactcc	ccacaagaga	tgaaagaaat	cctgtagtat	atggagtctt	tactacaacc	180
agctccatct	tcaaaggctc	tgctgtttgt	gtgtatagca	tggctgacat	cagagcagtt	240
tttaattggtc	catatgctca	taaggaaaagt	gcagaccatc	gttgggtgca	gtatgatggg	300
agaattccctt	atccacggcc	tggtacatgt	ccaagcaaaa	cctatgaccc	actgattaag	360
tccacccgag	attttccaga	tgatgtcatc	agtttcataa	agcggcactc	tgtgatgtat	420
aagtccgtat	accagttgc	aggaggacca	acgttcaaga	gaatcaatgt	ggattacaga	480
ctgacacaga	tagtgggtgga	tcattgtcatt	gcagaagatg	gccagtacga	tgtaatgttt	540
cttggga						546

<210> 173  
 <211> 710  
 <212> DNA  
 <213> Homo sapiens

<400> 173  
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 gttgtcatga agcttcaaat agatctctat agcaattctt gctgccttga agtaaaatgg 180  
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 cctcatacag tatgtatgaa agtcaaaactg gtcacacagtg atttctataa aatgtctctc 300  
 aatctcatga catttctttaa gtgcttcacc aaatttcttc attgctttat aagcctgggc 360  
 acattctgtt tggaaaccaca tgcactgcat ttcatccaaa ttctctaccg ctgatgttcc 420  
 ttcccttgta aactttgagc acatttcttc agcttctttaa atcagggttg ctttttagcat 480  
 gtattttgca catttggagt tgataaaatct gtctgtctgt tccaaggcct gngcctcatc 540  
 catccacctt gcagcttctt taatatcttc agcatgctta tagatttttag ctntcacgag 600  
 aaagangtct attaatgtag tgtactntca atagcagtat ttatgtactc canagcanta 660  
 gatggctgac caattttgtc ataattgtgt gccaaagtagt acttgaccca 710

<210> 174  
 <211> 409  
 <212> DNA  
 <213> Homo sapiens

<400> 174  
 ggcacgagca ttactacatg tccacaggaa gtacaaaagc catcttcatt tgaacgtaaa 60  
 tacaataatc ctgaaattct tagcaccaag tattactttt aaaagtaaaag acaaccgagt 120  
 gctctcccca catattgttg acttctctct actcacactg catgtcattt gagattttta 180  
 aaagttagct gccacagttt tggaaaatgc cagtgtttta aaataattgt gttaaagaat 240  
 caaaaagttta gcgtaacaga ttctgagtac ttcaaaccat tcaatgttac aaagaaaagt 300  
 gaaaatacca ttcttttggt tagattagct gtctcttcta cattaattta acattccgat 360  
 ggctttttga aaacttttaa aatgttgaaa ctccactagac aaaacaaaa 409

<210> 175  
 <211> 410  
 <212> DNA  
 <213> Homo sapiens

<400> 175  
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 ttttaactgga gcaaaaacaa gaagacatac atcttttctg gagacaaatt ctggagatac 180  
 aatgaggtga agaagaaaat ggatcctggc ttccccaagc tcatcgaga tgcctggaat 240  
 gccatccccg ataacctgga tgccgtctgt gacctgcagg gcggcgggtc cagctacttc 300  
 ttcaagggtg cctattacct gaagctggag aaccaaaagtc tgaagagcgt gaagtttgga 360  
 agcatcaaat ccgactggct aggcgtctga gctggccctg gctcccacag 410

<210> 176  
 <211> 473  
 <212> DNA  
 <213> Homo sapiens

<400> 176  
 tttttttttt ttttttttac aaaggaaaac aaagctactt ttggtttttg caacattaaa 60  
 aaagaaaaga atataaaaag caatgtggca ttgggtcccta ttcatataaa aaaaagggtta 120  
 cttggggcacg acacaatcag aattagtgtt ttttctaaaa ttccagagtat ctgggatttt 180  
 aaaagtagca ctttttataaa agttcaacaa gtcacataac acttaaaaaca tcaaaaaagc 240  
 tttctgataa aaagctcagc ttttaaatca cgttttgttt ctgcaaatat gggagacaaa 300  
 ttgagttctt actggaatgt ggccatctgc tgggtgacaa atctgaaatg gaatgtctcc 360  
 aaatggcagt gctccctctt ccgcctctcc taggaccaca ccaataacca gctcccaagc 420  
 acaagttctt gctcccatct tttctgtagg ggtgggggtg ggaccttcag gct 473

<210> 177  
 <211> 423  
 <212> DNA  
 <213> Homo sapiens

<400> 177  
 tttttttttt ttttttttta caaagcttct tgtaaatatt ttattttcca tacttttagag 60

tcagaaaagaa	gcgcttggtta	ataaaaaataa	tagagaatta	ttttcttcaa	gcccgcctctg	120
cgctgcgcgcg	gcctccccgcg	gcccggggccc	acggctgagt	gcgcggcgctc	agaggcccca	180
agtcacatctc	actatattaca	gatatgttac	aggccgggat	ggtcacagag	gaaagcccag	240
ctctcagcat	ggccccacgt	ggtgaggagc	ccccaggctc	ctcccggtcg	tctcggaacag	300
agactgagaa	gcctgcgcgcg	tcccggtgggg	gcctaggctg	cgccggggctc	cacgggggggg	360
caggagtggg	ccgtgatgtc	gctgtgcttg	tacgcgcct	cgtccaggctc	cagcagcctc	420
cg						423

<210> 178  
 <211> 304  
 <212> DNA  
 <213> Homo sapiens

<400> 178						
tcagggttcaa	gtgctggatt	gtgtcatgtg	accatcccaa	aactcagagc	accctatggc	60
cgctctttgcc	ctctgtcaca	taacttgaaa	actgcctgat	ggcctttttg	cagtgggttcc	120
ctccagggaag	ccttgatctc	agtgaagaa	gttcttttcc	ggcattccaa	tgccccctgtc	180
agctccatac	tcctcagaca	cccttaacaa	aggctgtcat	gcacacaatg	tgacaaaatac	240
acaaaaataaa	tgataattac	actaataatg	atatgttcag	agggggcactg	gccagggtcca	300
caca						304

<210> 179  
 <211> 541  
 <212> DNA  
 <213> Homo sapiens

<400> 179						
gggggcaaaga	aaaatgtgaa	ggattcgaac	tgcacttctg	gagaaaaata	tgtcgttaact	60
gcaagtgtgg	ccaagaagag	catgatgtcc	tcttgagcaa	tgaagaggat	cgaaaagtgg	120
gaaaaactttt	tgaagacacc	aagtatacca	ctctgattgc	aaaactaaaag	tcagatggaa	180
ttcccatgta	taaacgcaat	gttatgatat	tgacgaatcc	agttgctgcc	aagaagaatg	240
tctccatcaa	tacagttacc	tatgagtggg	ctcctcctgt	ccagaatcaa	gcattggcca	300
ggcagtagat	gcagatgcta	cccaaggaaa	agcagccagt	agcaggctca	gagggggcac	360
agtaccggaa	gaagtagctg	gcgaagcagc	tccctgcaca	tgaccaggac	ccttcaaagt	420
gccatgagtt	gtctcccaga	gaggtgaagg	agatggagca	gtttgtgaag	aaatataaga	480
gcgaagctct	gggagtagga	gatgtcaaac	ttccctgtga	gatggatgcc	caaggcccca	540
a						541

<210> 180  
 <211> 685  
 <212> DNA  
 <213> Homo sapiens

<400> 180						
tcgtggaaaca	aaagttatcc	tacacctgaa	agaagaccaa	actgagtact	tggaggaacg	60
aagaataaaag	gagattgtga	agaaaacatc	tcagtttatt	ggatatccca	ttactctttt	120
tgtggagaag	gaacgtgata	aagaagtaag	cgatgatgag	gctgaagaaa	aggaagacaa	180
agaagaagaa	aaagaaaaag	aagagaaaag	gtcgggaagac	aaacctgaaa	ttgaagatgt	240
tggttctgat	gaggaagaag	aaaagaagga	tggtgacaag	aagaagaaga	agaagattaa	300
ggaaaagtac	atcgatcaag	aagagctcaa	caaaaacaaag	cccatctgga	ccagaaaatcc	360
cgacgatatt	actaatgagg	agtacggaga	attctataag	agcttgacca	atgactggga	420
agatcacttg	gcagtgaagc	atttttcagt	tgaaggacag	ttggaattca	gagcccttct	480
atttgtccca	cgacgtgctc	cttttgatct	gtttgaaaaac	agaaagaaaa	agaacaatat	540
caaattgtat	gtacgcagag	ttttcatcat	ggataactgt	gaggagctaa	tccttgaaata	600
tctgaacttc	attagagggg	tggtagactc	agaggatctc	cctctaaaca	tatcccggtga	660
gatgttgcaa	caaagcaaaa	ttttg				685

<210> 181  
 <211> 207  
 <212> DNA  
 <213> Homo sapiens

<400> 181

ttctcagagg	aacgagaatg	aatatgactc	aagccccggg	tctgggtggc	gcagtgggtg	60
ggttgggtgg	tgctctgctc	tacgctccca	tcacaaagat	tgaggagggg	catctgggtg	120
tgtaactacag	gggaggagct	ttactaacta	gccccagtgg	accaggctat	catatcatgt	180
tgccctttcat	tactacgntt	cagaatc				207

<210> 182  
 <211> 530  
 <212> DNA  
 <213> Homo sapiens

<400> 182						
aaatcattct	ggttcacgga	cacctccagt	agcactcaac	agttccagaa	tgagctgctt	60
cagtcgtcct	agcatgtccc	caacacctct	tgatcgctgc	agatcacctg	gaatgcttga	120
acctcttggt	agctctagaa	cacctatgtc	tgctctgcag	caagccggcg	gctccatgat	180
ggatgggtcca	gggtccccga	tacctgacca	ccagagaaca	tctgtgccag	aaaatcatgc	240
tcagtccagg	attgcacttg	ccctgacagc	tatcagtctt	ggcaccgctc	ggcctccctc	300
gtccatgtct	gctgctggcc	ttgctgcaag	aatgtctcag	gttccagccc	cggtgacctc	360
catgagtctc	agaaccgcac	cagcagccaa	ccctgctcag	aggattcctg	cagcctctgc	420
ggcagccatg	aacctagcca	gogccaggac	acctgcccatt	ccaacagcag	tgaacctggc	480
tgactctcga	acgccagctg	cagcagcggc	catgaacctg	gccagcccca		530

<210> 183  
 <211> 526  
 <212> DNA  
 <213> Homo sapiens

<400> 183						
tgtagatcaa	ctgaggcatc	tacttgtgag	taatgtggga	ggagatggag	aagagattga	60
aagattcttt	aaattacatc	aggaagacca	ggcttgtgca	acttgcccta	ttcttgcttg	120
ctccactgct	gcctgtgata	gagaagtatc	tgccctgggt	actcgggctt	ttcttaggta	180
tggtgggtgaa	gcacagatga	gattttccaac	cactcttccg	cctccaagta	atgttggtcc	240
catcttgggg	tctctgtctc	attctagtcc	tcctgttcc	agtggtagtc	cctatccaaa	300
tcctatcctt	ttgggaacac	cgtctcatgg	tatacagcct	cctgccatgt	caactccagt	360
gtgtgtctct	ggaaacccag	caactcaggc	cacaaatatg	agttgtgtga	ctggaccaga	420
gattgtgtac	tctggaaaac	acaatgggat	ttgcatttac	ttttctcgga	tcattgggaa	480
catcttgggt	gcaagcttag	ttgtggagag	aatatccaag	agtggc		526

<210> 184  
 <211> 612  
 <212> DNA  
 <213> Homo sapiens

<400> 184						
gaagaagagg	aagaggagga	ggagggaagag	cagccgcagg	cagcacagcc	tcacacctg	60
cccggtggagg	agaagaagaa	gattccagat	ccagacagcg	atgacgtctc	tgagggtggac	120
gcgcggcaca	tcattgagaa	tgccaagcaa	gatgtcgatg	atgaatatgg	cgtgtcccag	180
gccccttgac	gtggcctgca	gtcctactat	gcccgtggccc	atgctgtcac	tgagagagtg	240
gacaagcagt	cagcgcttat	ggtcaatggt	gtcctcaaac	agtaccagat	caaagggtttg	300
gagtggctgg	tgctccctgta	caacaacaac	ctgaacggca	tcctggccga	cgagatgggg	360
ctgggggaaga	ccatccagac	catcgcgctc	atcacgtacc	tcattggagca	caaacgcac	420
aatggggccct	tcctcatcat	cgtgcctctc	tcaacgctgt	ccaactgggc	gtacgagttt	480
gacaagtggg	ccccctccgt	ggtgaagggt	tcctacaagg	gatccccagc	agcaagacgg	540
gcctttgtcc	ccagctcccg	gagtgggaag	ttcaacgtct	tgctgacgac	gtacgagttc	600
atcatcaaag	ac					612

<210> 185  
 <211> 433  
 <212> DNA  
 <213> Homo sapiens

<400> 185						
gtttcttcca	gacaaaggaa	tatcaaaaaca	cttcgggcaca	agtacaacaa	aggcatggga	60
agatcatgat	aatgttttac	atcacatttt	acagcatatt	attttaatca	gtatttctag	120
aaaacaagga	tgctgagttc	ttgaacactg	cagtcacaaa	ctcaaaactaa	aatttccaaa	180



```

aaaaggaaaag aaaacactga actactttggt caactgaaca tctgtaataa taaatgtaac 240
gaaaccttaac caaataaata tgccactgag atcacaactg aagtgatagg tttttagttg 300
gtgccagaga cattaaatra tttaatcagt ttttgactac aacccaaaag aaagcatcct 360
ctctgtttcc ctgatgattt attctaaaag taaccttaaa aagcagaaac ttgctgggta 420
aagagaattt ctg 433

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<210> 186  
 <211> 377  
 <212> DNA  
 <213> Homo sapiens

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<400> 186
ataatgcaag ccccttgcag gcaatccaaa tttattgaac tactgatgct aagttatata 60
aaattgcacc actttaatta aggccttttag tttacatttg gccacctcaa agtagttgta 120
acattagggtt ggtcaattta aatactgtgg ctccctgttg gatagacaca caatctttac 180
atccaaacat taatgcatac aaagcaacaa ggcattgtta aataaaaacag caatagttac 240
tgcaaattag gccttgtgac caattacata tgattaaaat tacttccacac attcacatcc 300
acagtnactc gcccaccatt taacatctca ccaannacgt tacacatgtg aaacaatcac 360
taacaggcaa aaatact 377

```

<210> 187  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

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<400> 187
gctgtagggtc gaggggaaga cttagactcc ttctttatat tgggtttcct tgagcctttg 60
gtggctgctt tgtgtctgct ggagggcag ctgctagcca agtctacagg gggtttcactt 120
tctatcttca ggccctccacg aggcctcttca gcagctgcoct tctcagcctt tttgggttgt 180
tttttgccca cagttcttct ctgtgtgtgt ctgtcactct gtgcaggaga tttgtgcctc 240
ccacgcccac tttctgatcc cttttggatg gttttggagt ctgctcccgg agtagcggaa 300
ctcgtttctt taggtccact tgtatcagtg tagctattcc cagtgccttg ctctcggcct 360
tcctttttgt agccttgaga tgatgggatg ttactgtcca ctgaagaggc ggg 413

```

<210> 188  
 <211> 378  
 <212> DNA  
 <213> Homo sapiens

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<400> 188
ctgaaaagcc atcttttgc atgttccctcat ccgcctcctt gcccgcgcga gtcgcctccg 60
ccgcgcgcct cctccgcgc cgcggactcc ggcagcttta tgcgccagag ccttgaactc 120
tcgctttctt tttaatcccc tgcctcggat caccggcggtg cccaccatg tcagacgcag 180
ccgtagacac cagctccgaa atcaccacca aggacttaaa ggagaagaag gaagttgttg 240
aagaggcaga aaatggaaga gacgcccctg ctaacgggaa tgctaagtga gaaaatgggg 300
agcaggaggc tgacaatgag gtagacgaag aagaggaaga aggtggggag gaagaggagg 360
aggaagaaga aggtgatg 378

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<210> 189  
 <211> 545  
 <212> DNA  
 <213> Homo sapiens

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<400> 189
tctgtcagaa gttgtagcag tgttgtatag tgtttgattt catggaactct gtttcagact 60
tgaagagcaa agaaattaaa agagcaaac tgaatgaact ggttgagtat gtttcaacta 120
atcgtgggtg aattgttgaa tcagcgtatt ctgatatagt aaaaatgac agtgcttaaca 180
tcttccgtac acttccctca agtgataatc cagattttga tccagaagag gatgaaccca 240
cgcttgaggc ctcttggcct cacatacagt tggatatga attcttcttg agatttttgg 300
agagccctga tttccagcct agcattgcaa aacgatacat tgatcagaaa tttgtacaac 360
agctcctgga gctttttgat agtgaagatc ccagagaacg tgacttcttg aagactgttc 420
tgcaccgaat ttatgggaaa tttcttggat taagagcatc catcagaaaa caaatttaaca 480
acattttcct cagggtttata tatgaaacag aacatttcaa tgggttgcgt aacttcttga 540
atatt 545

```

<210> 190  
<211> 648  
<212> DNA  
<213> Homo sapiens

<400> 190  
gggtgtgcca ttgtgtggga cgggtctgggg cagcccagca ggggctgacc ctctgcctgc 60  
ggggaaggga gtgcgcaggc ggccgtcatg gcgggtgtcg agagccagct caagaaaatg 120  
gtgtccaagt acaaatacag agacctaaact gtacgtgaaa ctgtcaatgt tattactcta 180  
tacaaagatc tcaaacctgt tttggattca tatgttttta acgatggcag tttcagggaa 240  
craatgaacc tcaactggaac aatccctgtg ccttatagag gtaatacata caatattcca 300  
atatgcctat ggctactgga cacataccca tataatcccc ctatctgttt tgttaagcct 360  
actagttaa tgactattaa aacaggaaaag catgttgatg caaatgggaa gatatacttt 420  
ccttatctac atgaatggaa acaccacag tcagacttgt tggggcttat tcaggtcatg 480  
atttgggtat ttggagatga acctccagtc ttctctcgtc ctatttcggc atcctatccg 540  
ccataccagg caacgggggc accaaatact tcctacatgn ccagcatgcc aggtggaatc 600  
tctccatacc catnncgata cncctccant cccagtgggt acccagct 648

<210> 191  
<211> 339  
<212> DNA  
<213> Homo sapiens

<400> 191  
gcgttttaag ctcaggctaa agatgatata aatagaggtg caccatccat cacatctgtc 60  
acaccaagag gactgtgcag agatgaggaa gacacctctt ttgaatcact ttctaaattc 120  
aatgtcaagt tttcacctat ggacaatgac tcaactttct tacatagcac tccagagaga 180  
cccggcatcc ttagtcctgc cactgtctgag gcagtgtgcc aagagaaaat taatatggag 240  
ttcagagaca acccagggaa ctttgttaaa acagaagaaa ctttatttga aattcaggga 300  
attgacccca tagcttcagc tatacaaaac cttaaaaaca 339

<210> 192  
<211> 252  
<212> DNA  
<213> Homo sapiens

<400> 192  
tgatagtgat ggatggacgc cgctgcactg cgctgcctct tgtaacagcg ttcacctctg 60  
caaacagctg gtggagagtg gtgcgcacct ttttncctca accataagcg acattgaaac 120  
tgctgcagac aagtgtgagg ngatggagga aggtacatc cagtgtctcc agtttctata 180  
tgggtgtcag gtgaagctgg gtgtgatgaa caaagggtgtg gcnnatgctc tgtgggacta 240  
cgaggcccg aa 252

<210> 193  
<211> 272  
<212> DNA  
<213> Homo sapiens

<400> 193  
gacaaacagg actaccgcga gccctcggac ctgtccacct ttgtaaaaga gaccaaattc 60  
agttcaccca ctgaggagtt ggattacaga aactcctatg aaattgaata tatggagaaa 120  
attggctcct ccttacctca ggacgacgat gccccgaaga agcaggcctt gtaccttatg 180  
tttgacactt ctcaggagag cctgtcaag tcaatctccc tccgcatgtc agagtccccg 240  
acgccgtgtt cagggtcaag ttttgaagag ac 272

<210> 194  
<211> 334  
<212> DNA  
<213> Homo sapiens

<400> 194  
gagancctgg aaaaattaac cacatgagan acgatacact agcccagatg ttgacgttgg 60  
gaaatatccg tncctggcaac aaaatgattg tnatggaaac gtgtgcaggc ttggtgctgg 120  
gtgcaatgat ggaacgaatg ggaggttttg gctccattat tcagctatac cctggaggag 180

gacctgttcg	ggcagcaaca	gcattgtttg	gatttcccaa	atctttttct	agtgggtctt	240
atgaattccc	tctcaacaaa	gtgggacagt	cttctacatg	gaacattttc	tgccaagatg	300
ttatcttcag	agccaaaaga	cagtgccttg	gttg			334

<210> 195  
 <211> 352  
 <212> DNA  
 <213> Homo sapiens

<400> 195						
ttttggtttt	gtcaaatgtt	ttattgagtg	tagacatctg	gagtactgta	aaacatgcat	60
tatctgtaga	ttcaaaaagg	agcaagccac	attgtcctca	ctgtcaaatg	tgtcaggctt	120
ggcatacatg	atggagatta	atgaagtatc	atgagagtaa	tatggttcct	gaaaagcttc	180
tacaattttg	agtagggctt	taatcacgtg	aaaaagcaaa	ctgttcacat	ttagtgaacc	240
tgcaatttcat	ggaggggggg	gggtacacan	tattttcaatt	ttaaaacaaa	taaaaataat	300
ttgtttgtca	aagattccca	tctccccaac	tttatttgtc	gcattgggtt	tc	352

<210> 196  
 <211> 355  
 <212> DNA  
 <213> Homo sapiens

<400> 196						
ttatgaagaa	gaaattattc	atttttaagaa	agaacttcga	gaaccacaat	ttcgggatgc	60
tgaggaaaaag	tatagagaaa	tgatgattgt	tatgaggaca	acagaacttg	tgaacaagga	120
tctggatatt	tattataaga	ctcttgacca	agcaataatg	aaatttcaca	gtatgaaaaat	180
ggaagaaatc	aataaaaatta	tacgtgacct	gtggcgaagt	acctatcgtg	gacaagatat	240
tgaatacata	gaaatacggc	ctgatgccga	tgaaaaatgta	tcagcttctg	ataaaaaggcg	300
gaattataac	taccgagtgg	tgatgctgaa	gggagacaca	gccttggata	tgcca	355

<210> 197  
 <211> 456  
 <212> DNA  
 <213> Homo sapiens

<400> 197						
gcacgagtct	acatccagag	gaccaagagc	atgttccaga	ggaccacgta	caagtatgag	60
atgattaaca	agcagaatga	gcagatgcat	gcgctgctgg	ccattgccct	cacgatgtac	120
cccattgcgt	ttgatgagag	cattcacctc	cagctgcggg	agaaatatgg	ggacaagatg	180
ttgcgcattg	agaaagggtga	cccacaagtc	tatgaagaac	ttttcagtta	ctcctgcccc	240
aagtctcctg	cgctctgtat	gcccactat	gataatgtgc	accccaacta	ccacaaagag	300
cccttcctgc	agcagctgaa	gggtgtttct	gatgaagtac	agcagcaggc	ccagctttca	360
accatccgca	gcttcttgaa	gctctacacc	accatgcctg	tggccaagct	ggctggcttc	420
ctggacctca	cagagcagga	gttccggatc	cagctt			456

<210> 198  
 <211> 422  
 <212> DNA  
 <213> Homo sapiens

<400> 198						
gcacgagata	ctgtgaaata	ctttttctca	caaaaaggca	aatattgaag	ttgtttatca	60
acttcgctag	aaaaaaaaaa	catttggcat	acaaaatatt	taagtgaagg	agaagtctaa	120
cgctgaactg	acaatgaagg	gaaattgttt	atgtgttatg	aacatccaag	tctttcttct	180
tttttaagtt	gtcaaaagaag	cttccacaaa	attagaaagg	acaacagttc	tgagctgtaa	240
tttcgcctta	aactctggac	actctatatg	tagtgcattt	ttaaacttga	aatatataat	300
attcagccag	cttaaaccca	tacaatgtat	gtacaataca	atgtacaatt	atgtctcttg	360
agcatcaatc	ttgttactgc	tgattcttgt	aaatcttttt	gcttctactt	tcattctaaa	420
ct						422

<210> 199  
 <211> 446  
 <212> DNA  
 <213> Homo sapiens

<400> 199  
 cgatggagac atcaaaacaag agccaggaat gtatcgggaa ggacccacat accaacggcg 60  
 aggatcactt cagctctggc agtttttggg agctcttctg gatgacctt caaattctca 120  
 ttttattgco tggactgggc gaggcattgga atttaaaactg attgagcctg aagaggtggc 180  
 ccgacgttgg ggcattcaga aaaacaggcc agctatgaac tatgataaac ttagccgttc 240  
 actccgctat tactatgaga aaggaattat gcaaaaagggtg gctggagaga gatattgtota 300  
 caagtttctg tgtgatccag aagccctttt ctccatggcc ttccagata atcagcgtcc 360  
 actgctgaag acagacatgg aacgtcacat caacgaggag gacacagtgc ctctttctca 420  
 ctttgatgag agcatggcct acatgc 446

<210> 200  
 <211> 581  
 <212> DNA  
 <213> Homo sapiens

<400> 200  
 cgaaaagaaa tcagaaatgg aaagtgtttt ggcccagctt gataactatg gacagcaaga 60  
 acttgcgga ctttttctga actataatgt aaaatctccc attactggaa atgatctatc 120  
 cctccagtg tcttttaact taatgttcaa gactttcatt gggcctggag gaaacatgcc 180  
 tgggtacttg agaccagaaa ctgcacaggg gattttcttg aatttcaaac gacttttggg 240  
 gttcaaccaa ggaaagtggc ctttttctgc tgcccagatt ggaaattctt ttagaaatga 300  
 gatctccctt cgatctggac tgatcagagt cagagaattc acaatggcag aaattgagca 360  
 cttctctgat cccagtggag aaagaccacc ccaagttcca gaatgtggca gaccttcacc 420  
 tttatttcta ttcagcaaaa gccaggtcca gcggacagtc cgctcggaaa atgcgcctgg 480  
 gagatgctgt tgaacagggg gtgattaata acacagtatt aggctatttc attggccgca 540  
 tctacctcta cctcacgaag gtggaatatc ttcagataaa c 581

<210> 201  
 <211> 625  
 <212> DNA  
 <213> Homo sapiens

<400> 201  
 gtccctggccc agagcctgga cggggctgaa ggacacgggg gacagggctc ctggcttctt 60  
 ccgcccctgc ctggcccaga gcctggagca tgatgagcac tcttgtccct ttaaaaaatc 120  
 aaagccgcac cccgcctccc tggccagcaa gaaacctaaa agggaaacaa actctgacag 180  
 cgtcccacct ggctacgagc ccatctcgct gctcgaggcg ctcaacggcc tccgggctgt 240  
 ctcccggccc atccccctgg cccctcttta tgaagaaatc acctattcag gcatctcgga 300  
 cggcctgtcc caggccagnt gtccccctgc ggctatcgac cacatocctg acagcagccg 360  
 ccagaagggc aggcgcgaga gcaaggcccc cgacagcacc ctacggctcc cgtcttcccc 420  
 catccacgaa gaggatgagg agaagctctc cgaggacgtg gacgccccct cccactggg 480  
 tggcgagag ctggccctgc gggaaaagcag ctcccctgag agtttcataa cagaagagg 540  
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 gcangacaag caagncccga gcaact 625

<210> 202  
 <211> 806  
 <212> DNA  
 <213> Homo sapiens

<400> 202  
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 agttaccaat gacaaccttg agtgccgctt tgtgaaagaa acccggaatt gtgaggtgog 180  
 gccttctgtgga cagccagtgt acagcagcct gaaaaagggc aagaaatgca gcaagaccaa 240  
 gaaatcccc gaaccagtca ggtttactta cgtctggtgt ttgagtgtga agaaataccg 300  
 gcccgaagtac tgcggttcct gcgtggacgg ccgatgctgc acgccccagc tgaccaggac 360  
 tgtgaagatg cggttccgct gcgaagatgg ggagacattt tccaagaacg tcatgtgat 420  
 ccagtccctgc aaatgcaact acaactgccc gcattgccaat gaagcagcgt ttcccttcta 480  
 caggctgttc aatgacattc acaaatttag ggaactaaat ctacctgggt ttccagggca 540  
 cacctagaca aacaaggag aagatgtcag aatcagaatc atggagaaaa tggcgggggg 600  
 tgggtgtgggt gatgggactc antgtagaaa ggaagccttg ctccantcctg aggananta 660  
 aggtattctg aaactgccaa ggggtgctgg ggggatggac actaangcag ccacgattgg 720

agaatactttt gntcatagt antggagcac agttaacngct caatttggag cntgtggaat 780  
tgagacttcc ngnttccggg tgaaat 806

<210> 203  
<211> 489  
<212> DNA  
<213> Homo sapiens

<400> 203  
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acatacaaat attacctcat ttgtttgtgt actgagtaaa gaatttttgg atcaagcggg 120  
aagagttttaa gtgtctaaca aacttaaaagc tactgtagta cctaaaaaagc cagtgtttga 180  
catagcataa aaactctgca gagaagtatt cccaataagg aaatagcatt gaaatgttaa 240  
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ataaattatt ttctcattgc cattggaata gatattctag attgtgtaga tatgctattt 360  
aaataattta tcaggaaata ctgcctgtag agtttagtatt tctattttta tataatgttt 420  
gcacactgaa ttgaagaatt gtcgggtttt tttttttttt gtttngnntt tttttttttt 480  
tttttttttg 489

<210> 204  
<211> 403  
<212> DNA  
<213> Homo sapiens

<400> 204  
caagctcaga aggggtcatct cagagttcac tctctctgtt actcattggg ggaaaccatt 60  
tgatcactgc aggtgtgcca aggcgaagta aaagaattgc aggcacaaaaa gtttgcagag 120  
tggaatcagg aaaagcaggc tgctttttct ctaaaatcaa gccataaaga aaagggttccg 180  
aagatctctg ccgttttgaaa ttcaatctag ggaaaaatgg cagagaagta aatgggatgt 240  
tctgggtgca ataggatatt gaaagtgttg gttggggcagc ttgcaaatca acaaagttaa 300  
aaaaatccga attngaattc gtaaaaacag gtttgctttt taagcccagn atgttggatt 360  
ggaaaaangt taccanaaga aaggggttca agaaaaagga tca 403

<210> 205  
<211> 462  
<212> DNA  
<213> Homo sapiens

<400> 205  
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ctgtatgttt gctatgtggg acaatcttaa aaatttgcgt attcatagtt tgtaaaaaca 120  
aaaccttaca aaactcatca aaactcgcaa actgatcaga aaagtctctc ggaagactag 180  
aaaaaatact ttattgtctt aatcatgcat tacacaaaaca aaatctttag ttacaccata 240  
aaattaagca catctaaaaa aataaaaacag ggataactag tcaaaaacaca gcagatttct 300  
gtatcctgat tcaactattt ttgtatccta ttgtaatgc aaataaaaact ttactccaaa 360  
tattttttaa caagttagtt ttgtttggaa tcatggtaaa ccaagatata tatcttaggg 420  
ggaaccacct tgggttgtaa tttaaaactat aaaatactcc at 462

<210> 206  
<211> 724  
<212> DNA  
<213> Homo sapiens

<400> 206  
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ttcttgcctt attaaacgct ggatgcttgc agtaaatatt tctagtgtgt tcttcaattc 120  
tcgttcacta tgccgtaact taactactct ttctcaagt tgtactttct gttcttggat 180  
ttgcattgct ttttttagag cgtttttgcaa ctgtgattcc attttgttta cctcttcttc 240  
agagatttca ataacaagtg aggaaccocat tcttctcttc attactttgc ttccaccacc 300  
agtcatgtga cctgactgtt ctatgatttg tccctgtaaa gttaccactc tccatcttct 360  
atctttttga tatgtacttc ttgtggcttg atccaagttg tcagctacta aggtatctcg 420  
taaagcaaaa taaaaagcct ggcgaaattt ctcatctttt acttttacta aatcaataaa 480  
acgaggagta ttttcaggag ttggaatttc ggtcatcttt ttggcccata cagccatctt 540  
atctaaaacct ataaaaagtg caactccaat atttttgtct ttttaagggaag ttacacattt 600

cttgggctat atcaaataga tcaaccaaca atgtagtcca gtgcatgaca acaggatgat 660  
ataaccacct cggatttttt attaatgggt tctaaggccc caatcgcca tatattttctg 720  
gaac 724

<210> 207  
<211> 371  
<212> DNA  
<213> Homo sapiens

<400> 207  
cctcgtgcaa gttanagggt cgcnggtntg cagacctcac agaagattag ctaccctcct 60  
gtgagagtct gaaggatact attgccagag ctctgcccct ctggaatgaa gaaatagttc 120  
cccagatcaa ggaggggaaa cgtgtactga ttgcagccca tggcaacagc ctccggggca 180  
ttgtcaagca tctggagggt ctctctgaag aggctatcat ggagctgaac ctgccgactg 240  
gtattcccat tgtctatgaa ttggacaaga acttgaagcc tatcaagccc atgcagtttc 300  
tgggggatga agagacgggt cgcaaagcca tgggaagctgt ggctgcccag ggcaaggcca 360  
agaagtgaag g 371

<210> 208  
<211> 359  
<212> DNA  
<213> Homo sapiens

<400> 208  
cggccatcac ctcattcctg tcaaggagaa cctcgttgac aaaatctgga cagaccgtcc 60  
tgagcgcctc tgcaagcctc tcctcacact gggcctggat tacacaggca tctcctggaa 120  
ggacaagggt gcagaccttc ggttgaaaat ggctgagagg aacgtcatgt ggtttgtggg 180  
cactgccttg gatgagattg cgtggctatt taatctccga ggatcagatg tggagacaaa 240  
tccagtattt tnntcctacg caatcatagg acttagagac ggtcatgctc ttcattgatg 300  
gtgaccgat agacggcccc agtggtgaag gagcacctgn tttctttaac ttgggcttg 359

<210> 209  
<211> 353  
<212> DNA  
<213> Homo sapiens

<400> 209  
tggcacgagg ccgtgtccaa gatgttttca gttcaacaca cagtctcctc cattattttg 60  
atcgtctgat tcttaccgga gcgaaaagca aaagtaatgg ggaagagggc tatggccgga 120  
gcttgagata cgcgcctctg aatcttgccg cctgcactg ccgcttcggt cactatcaac 180  
aggcagagct cgccctgcag gaggcaatta ggattgccc aaggagatcc gatcacgtgt 240  
gtctccagca ctgtttgagc tggctttatg tgctggggca gatagctatg 300  
ttctgctgga gcattctgtg aaganggcag tacatttttg ggttaccgta cct 353

<210> 210  
<211> 651  
<212> DNA  
<213> Homo sapiens

<400> 210  
tttttttgac tgtcttcaca ttaatggaga ttgggtgatt ctcttcagct tttactttct 60  
ttgggtgatga tggcttggag gctggagaaa atccaccag ggttgaaagg gctggagtct 120  
catccggatt caatcccttt gcttttaatt tggcttcttg taaggctact tttctttttt 180  
ctactttctt ttccagtaat tcatagtctg gctttttctt ggtataaagg ctaagtgttt 240  
ctatgcagat ttcttggatt tctctctctg tagtaccaaa aagaagaaac caatggggac 300  
gagttggcaa cggaatctga agtgctctag ctgcaaggta gatgcaagca catgctatag 360  
tctctgggtg aaatcgaaac aacacattgg ttcgaaagact gtcattcatg taattccagg 420  
cagtttgaac caggggtttg ttacgttcac attctaagac ttgtaaatag ataacaatga 480  
tcttatgagg atgcttgaca tgaacacaaa atcccaactc ctttagcacc ctctctctg 540  
ctttgataac ttgatttttg gtgttaatgt agttctgata aaggatcacg gggcttggag 600  
tctttttctt ttttaactggc ggaggtggtg gaatacatga atcacatctc t 651

<210> 211  
<211> 789

<212> DNA  
<213> Homo sapiens

<400> 211  
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ccattgacat ccattcaccag caaatccaac atgggtccatc gattttttgt aaaaaacaaa 120  
acagatgtgc tcattcctccc agaagagggtg gaattggatca aattttaattg gggcatgaat 180  
ggctattaca ttgtgcatta cgaggatgat ggatgggact ctttgactgg ctttttanaa 240  
ggaacacaca cagcagccag cagtaatgat cgggcaagtc tcattaacaa tgcatttcag 300  
ctcgtcagca ttgggaagct gtccattgaa raggccttgg atttatcccc gtacttgaaa 360  
catgaaactg aaatttatgcc cgtgtttcaa gggttgaaat agctgattcc tatgtataag 420  
ttaatggaga aaagagatat gaatgaagtg gaaactcaat tcaaggcctt cctcatcagg 480  
ctgctaaggg acctcattga taagcagaca tggacagacg agggctcagt ctccagagcaa 540  
atgctgcgga gtgaactact actcctcgcc tgtgtgcaca actatcagcc gtgcgtacag 600  
agggcagaag gctatattcag aaagtgggag gaatccaatg gaaacttgag cctgcctgtc 660  
gacgtgacct tggcagtggt tgctgtgggg gccagagca cagaaggctg ggattttctt 720  
tatagtaaat atcagttttc tttgtccagt actgagaaaa gccaaantga attttcccc 780  
ttcagaaca 789

<210> 212  
<211> 457  
<212> DNA  
<213> Homo sapiens

<400> 212  
caattaaggg ctttggcggg attggctccg cgtttgggct gggtccgctgc tccccacctt 60  
ccagggtcgg atccggagcc cttccccgcg gggcggggac ctccaaacaa ccgactcctt 120  
tccagctgaa gaaacactta aattctggaa atagcgactc agtatcatgg ccagcagcct 180  
taatgaagat ccagaaggaa gcagaatcac ttatgtgaaa ggagaccttt ttgcatgccc 240  
gaaaacagac tcttttagccc actgtatcag tgaggattgt cgcattggcg ctgggatagc 300  
tgtctctctt aagaagaaat ttggaggggt gcaagaactt ttaaatcaac aaaagaaatc 360  
tgagagaagt gctgtttctga agagagatgg gcgatataa tattacttga ttacaaagaa 420  
aagggtcttg cacaagccaa cttatgaaaa cttacag 457

<210> 213  
<211> 727  
<212> DNA  
<213> Homo sapiens

<400> 213  
ttttttttgt ggtaatatat tgctgcactg agtgtgtgca atttttattc aagggtcatcg 60  
tgatgctgag aagttttcgtt gataacctgt ccattctctag tttcaaccgt cttaatcaga 120  
agtgtccttt ttgagtgggt atcaaccaga gggagtgaat ccagattagt ttccctcagg 180  
ttcagggagg aaaagttttg aagaggcaga gaaatcctgc tctcctcgcc ttccagcagc 240  
ttcctgtagg tggcaatctc aatgtcaagg gccatcttaa cattgagcag gtcttggtat 300  
tcacgaaggt gacgagccat ttccctcttc atattctgaa tctcatcctg caggcggcca 360  
atagtgtcct ggtagtttag agcttcaacg gcaaagttct cttccatttc acgcatctgg 420  
cgttccaggg actcattgggt tcccttaagg gcatccactt cacagggtgag ggactgcacc 480  
tgtctccggg actcagtgga ctcctgcttt gcctggcgca gggcgtcatt gttccggttg 540  
gcagcctcag agaggtcagc aaacttggat ttgtaccatt cttctgcctc ctgcaagttc 600  
ttggcagcca cactttcatt ttgctgacgt acgtcacgca gggcagcgct gaggtcaagc 660  
ttggaaacat ccacatcgat ttggacatgc tgttccctgga tctgagcctt gcgcttcttg 720  
atttctt 727

<210> 214  
<211> 622  
<212> DNA  
<213> Homo sapiens

<400> 214  
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gctttttaagc aaatgcagga ctgtgtctgca acagagaaaac tcactccaag agcaagaagc 120  
caaagaaaga aaaactaaag atgatgaagg agcaactccc attaaaaggc ggcgtgttag 180  
cagtgatgag gagcacactg tagacagctg catcagtgac atgaaaaacag aaaccaggga 240

ggctcctgacc	ccaacgagca	cttctgacaa	tgagaccaga	gactcctcaa	ttattgateg	300
aggaactgag	caagatcttc	cttccccctga	aaatagttct	gttaaagaat	accgaatgga	360
agttccatct	tcgttttcag	aagacatgtc	aaatatcagg	tcacagcatg	cagaagaaca	420
gtccaacaat	ggtagaratg	acgattgtta	agaattttaa	gacctccact	gttccaagga	480
ttctacccta	gctgaggaag	aatctgagtt	cccttctact	tcctatctctg	cagttctgtc	540
tgacttagct	gacttgagaa	gctgtgatgg	ccaagctttg	cccttccagg	accctgaggt	600
tgctttatct	ctcagttgtg	gc				622

<210> 215  
 <211> 448  
 <212> DNA  
 <213> Homo sapiens

<400> 215						
atagttaaac	aactttatta	acatagtcaa	gcagtgatta	acattcacat	ctattatgtc	60
acatcataca	aatgtaaata	caaaattact	acagtacaat	atataattctc	tgcatgatcc	120
aaaatatttg	gtggccccc	aaaactctct	ttaaaattca	gcagcttata	aaaaattaaa	180
accgtattct	attttaaagt	gagatctgtt	agcacagagt	tagacttcaa	gaaatatcaa	240
tttagtacag	tttgagaagt	tgaggaggga	tatgtttgaa	ggacacattc	taacatagtg	300
tgccaggtac	aggaaacatc	agattttaaag	cttttaagca	taactcatac	aacctaaagt	360
gtcagcagaa	agatccagtt	atatttgtta	ctaaagctaa	tgctactaaa	ttattgcacc	420
caatgttaac	atattaagtg	taaaaactg				448

<210> 216  
 <211> 595  
 <212> DNA  
 <213> Homo sapiens

<400> 216						
tctgtttctaa	tgtatcatta	agctccttaa	aatactggag	aacagcttcc	ttatcgcttc	60
ggatcatttt	ctcagaatga	gattttttgtt	ctttcagctt	ttcaataaga	tgggtaagat	120
ctgtccagtg	tgtgtcagtc	aactgttcaa	gcagtttttg	aggagtgtcc	ttttctttca	180
aataggcaat	ttgaagggtc	tctataggat	gacctgatg	ttgacctatg	gtaaggcaat	240
gaccacaaac	taattttttta	tctaataagac	agtaaacatt	taatgggttc	ctgtaatgtt	300
cagggcaggt	gacaatatct	ggatgggtctt	cttgctggta	cttttcaata	atagccctta	360
gtgcaaaaatt	aacagggtaaa	gattcaatgc	cagttggagc	aattttcagta	atacttctgc	420
aattagggga	cttgagtggc	attcgtaaaag	gtctccatat	ataaaaagtt	ccagatgcct	480
gaagaatgtt	ttccaaaacaa	tttctacaaa	atgtatgaga	gcattggcag	acacgaggat	540
cttcaaaaat	actataacat	atggggacaag	ttaactcttg	ctcanaaattg	tgcat	595

<210> 217  
 <211> 153  
 <212> DNA  
 <213> Homo sapiens

<400> 217						
aagtgggtgg	gcttgccaag	ctcgacacca	gtgcgactga	ggccagggcc	ctcggccttc	60
accttactgg	cgctcatgaga	gggtccacc	ttgactcgga	tggggctggg	gggcgtggcc	120
tggtcagcaa	agaggaccat	aatgggtgat	ctg			153

<210> 218  
 <211> 446  
 <212> DNA  
 <213> Homo sapiens

<400> 218						
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ccccgttgat	cgctccacaac	atacagaatg	gctgtcatgg	tccaatctgt	acagaataacg	120
ccatcaataa	attgctggcaa	gaagggaagc	aggaggggat	gtacgtgctg	aggtggagct	180
gcaccgactt	tgacaacatc	ctcatgaccg	tcacctgctt	tgagaagtct	gagcaggtgc	240
aggggtgccc	gaagcagttc	aagaactttc	agatcgaggt	gcagaagggc	cgctacagtc	300
tgacaggttc	ggaccgcagc	ttccccagct	tgggagacct	catgagccac	ctcaagaagc	360
agatcctgcg	cacggataac	atcagcttca	tgctaaaacg	ctgctgcccag	cccaagcccc	420
gagaaatctc	caacctgctg	gtggct				446



<210> 219  
<211> 581  
<212> DNA  
<213> Homo sapiens

<400> 219  
acggatagcg gatctgcgac aggggctgct ggacatcagc aaccatttca tccccctctgc 60  
tggggcacttt ggctggtaga ctattttcca tccgagcttc ctcttcagct ttttccgttt 120  
ggtcagtttt tgggttcactt ttccctctcaa actgtgatgc ttcttgagac tgatgggtctg 180  
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cttcattatg gctacccctca gagtcagagc actccctccc ttctgaccca ggccgggaagt 360  
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cagatgagtc aaatgtacct atttcttctt cagcatcctc taagcaccat tcggggcaagc 480  
tatccctgtc atcatctatg cttccactgc cagagcgaac ccgataagac aaataagaaa 540  
gaaggagaga aaacagatcc gctagcagat ccgctatccg t 581

<210> 220  
<211> 372  
<212> DNA  
<213> Homo sapiens

<400> 220  
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gatgaggaag aagaagatgg aactatgaaa agaaatgcaa cctcaccaca agtacaaaaga 120  
ccatcttttca tggactactt tgataagcaa gacttcaaga ataagagtca cgaaaactgt 180  
aatcagaaca tgcattgaacc ctccctctatg tccaaaaacg tttttctctg attaactggg 240  
aaagtccctc caagatggga gactttttga ctttttttgg aaaaatctta agtttttaggn 300  
aggaacttac cagggttgcgg gtttaaaaaag gcacttggga ccccatgggt tgggggaacgg 360  
ggngggttagg ga 372

<210> 221  
<211> 448  
<212> DNA  
<213> Homo sapiens

<400> 221  
tttttttttt ttttatgatg cactccaagt gccatattgc tatttttattc ttcaggaaat 60  
tatatttttt ttttacaaga gcacaacagg aaccaaaagta aaagagtat agatacagca 120  
ctcaggataa atcatatctt taaaataata ataaaaaaat ttacaccttg tcttatatcc 180  
tgtttagtatt ttcataatat ggccatgatt gaaaaaacaa aaagcaagca tctacaattt 240  
tttttgataa agacttttta tggcaggaaat ggatttaatta ccaacaaaat ttataactat 300  
caggctgatg tcaatctatt tttgtaattg atcatttaaca aattttattt ggaaaagata 360  
aaaatattgc cctttgataa taaatctttt tttcctttga tgcaaacagc tagaacacct 420  
tttttttttt ctttttgata ttctaaga 448

<210> 222  
<211> 373  
<212> DNA  
<213> Homo sapiens

<400> 222  
gttgacatg ccgtcggcca tgactgtgta tgcctctggg gtgggtgtctt acttccctcat 60  
caccggagga ataatttatg atgttattgt tgaacctcca agtgtcgggt ctatgactga 120  
tgaacatggg catcagaggc cagtagcttt cttggcctac agagttaaag gacaatatat 180  
tatggaagga ctgcatcca gcttccctatt tacaatggga ggattagggt tcataatcct 240  
ggaccgatcg aatgcaccaa atatcccaaa actcaataga ttccctcttc tgttcattgg 300  
attcgtctgt gtccatttga gttttttgat ggctagagta ttcattgagaa tgaaactgcc 360  
gggctatctg atg 373

<210> 223  
<211> 386  
<212> DNA

<213> Homo sapiens

<400> 223  
ggcaccgagggc ttcaagctac tgcggaaatg catcctgcag atgacccggc ctgtgggtgga 60  
ggggtccctg ggccagccctc catttgagaa acctaatatt gagcaggggtg tgcgtgaactt 120  
tgtgcagtaac aagtttagtc acctggctcc ccgggagcgg cagacgatgt tcgagctctc 180  
aaagatgttc ttgctctgcc ttaactactg gaagcttgag acacctgccc agtttcggca 240  
gaggtctccag gctgaggacg tggctacctt caaggccaat tacaccagat ggctctgtta 300  
ctgcccacgtg ccccagagct gtgatagcct ccccgctac gaaaccaactc atgtctttgg 360  
gcgaagccctt ctcgggtcca ttttca 386

<210> 224

<211> 593

<212> DNA

<213> Homo sapiens

<400> 224  
ggcaccgagga ttgcacacct aaaccttcga gatcatcagc tgccttttcaa acattttaatt 60  
ggccagggtta tgattgacaa aaatccagga atcacctcag cagtaaaataa aataaaataat 120  
attgacaata tgtaccgaaa ttcccaaatg gaagtgcctat ctggagagca gaacatgatg 180  
acaaaagggttc gagaaaacaa ctacacctat gaatttgatt tttcaaaagt ctattggaat 240  
cctcgtctgt ctacagaaca cagccgtatc acagaacttc tcaaacctgg ggatgtccta 300  
tttgatgttt ttgctgggggt tgggcccctt gccattccag tagcaaaagaa aaactgcact 360  
gtattttgcca atgatctcaa tccctgaatct cataaatggc tgttgtacaa ctgtaaatta 420  
aataaaagtgg accaaaaggt gaaagtcttc aacttggatg ggaaagactt cctccaagga 480  
ccagtcaaaag aagagttaat gcagctgctg ggtctgtcaa aagaaagaaa accctctgtg 540  
cacgtttgtca tgaacttgcc agcaaaaagct atagagtttc ttagtgcttt caa 593

<210> 225

<211> 477

<212> DNA

<213> Homo sapiens

<400> 225  
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cgctcccgcgt ctgcctcacc caggatgagt tccacccgtt catcgaggcc ctgctgcctc 120  
acgtccgcgcg cttcgccctac acctgggtca acctgcaggc gcggaagcgc aagtacttca 180  
agaagcacga gaagcggatg tcgaaggacg aggagcgtgc ggtcaaggac gagctgctgg 240  
gcgagaagcc cgaggtcaag cagaagtggg cgtcgcggct gctggccaag ctgcgcaagg 300  
acatccggcc cgagtgcgcg gaggacttcg tgctgagcat caccggcaag aaggcgcggg 360  
gctgcgtgct ctccaacccc gaccagaagg gcaagatgcg gcgcctcgac tgtctccggc 420  
aggcggacaa ggtgtggcgg ctggacctgg tcatggtcat cctgttcaag ggcattcc 477

<210> 226

<211> 299

<212> DNA

<213> Homo sapiens

<400> 226  
gccaaaagctc aatacccccatt tgctgatttg gtaaagatgc tcaactgagca aggcacaaaaa 60  
gtcagggtttg gaattcaccct agttgcaggc cgaatgcctg gncagcttaa tgtgctgctg 120  
gctgagggtg gtgtgccata tgacattgtg ttggaaatgg atgagatcaa ccatgatttt 180  
ccagatactg atttggtcct tgtaattgga gctaattgaca ctgttaattc agcagctcaa 240  
gaagatccca actctattat tgcaggcatg ccagtccttg aggtctggaa atcaaaagca 299

<210> 227

<211> 390

<212> DNA

<213> Homo sapiens

<400> 227  
gagtgaagga gttgaaactt ttcttggttag tgtacaactc attttgcgcc aattttcaca 60  
agtgtttgtc ttgtctgaa tgagaagtga gaaggttttt atactctggg atgcaaccga 120  
catgtttcaaa tgtttgaaat cccacaatgt tagaccaatc ttaagttctg taagttattt 180

cctttaagat	atatattaaa	cagaaatcta	agtagaactg	cattgactaa	ccagtccctc	240
tggatggg	tgaacotgaa	gcattgctta	acctctaaga	ctgtctaaca	cgcgttccat	300
tcaatgtctc	cacagactgg	gtagcaaaaa	aatcaccttc	tagttcttagt	ttttaaatcta	360
aagatgttag	acagatgctg	agtgtgcttc				390

<210> 223  
 <211> 423  
 <212> DNA  
 <213> Homo sapiens

<400> 223						
ttcctctgtc	gggtgtggcc	aagtggggat	aaagagaaga	gcaacatctc	taatgaccag	60
ctccatgctc	tgtctctgtat	ctacttggag	cacacagaga	gcattctgaa	ggccatagag	120
gagattgctg	gtgttgggtg	cccagaactg	atcaactctc	ctaaagatgc	atcttccctcc	180
acattcccta	cactgaccag	gcatactttt	gttgtttttc	tccgtgtgat	gatggctgaa	240
ctagagaaga	cggtgaaaaa	attgagcctg	gcacagcagc	agactcgcag	cagatttccat	300
gaagagaaac	tcctctactg	ggaacatggg	ctgttcgaga	cttcagtatc	ctcattcaac	360
tggattaaa	ggtattttga	tagttcatcc	tgttctggc	atgtatgttc	ggaaggggaag	420
gat						423

<210> 229  
 <211> 417  
 <212> DNA  
 <213> Homo sapiens

<400> 229						
tagaaaaaga	aagaaaactt	gaaaactaatc	ctgatattaa	gccatcaaat	gtggaaccta	60
tggaaaagga	gtttgggctt	tgcaaaaactg	agaacaaagc	caagtccggc	aaacagaatt	120
caaagaagct	gtactgcca	gaacttaaaa	aggtgattga	agcctccgat	gttgccttag	180
aggtgtttga	tgccagagat	cctcttgggt	gcagatgtcc	tcaggtagaa	gaggccattg	240
tcagaggtgg	acagaaaaag	ctgggtactta	tattaaataa	atcagatctg	ggtaccaaag	300
gaggatttgg	gagagctggg	ntaaaattatt	ttgaaggaaa	gatttgccca	acagtgggtg	360
tttcagagcc	tcaacaaaaa	cccaaagggt	taaagggggn	ggtttaccca	gggtttc	417

<210> 230  
 <211> 441  
 <212> DNA  
 <213> Homo sapiens

<400> 230						
cagtttccatg	tatttgaatc	gacaagacac	ctccctcgat	tctccatgta	tgcgctgacc	60
agcctggacc	ctgccagtga	gccaatcagt	tatgttaact	ttaccattgc	agaacgggca	120
cagaggggtg	ttgtatggct	cggtcagaac	ttctgtttac	cagaagacac	tcacattcag	180
aatgtctccat	ttcaagtgtg	tttcacatct	ttacgggaatg	gcggccanct	gcatataaaa	240
ataaaaactta	gtggagagat	cactataaat	actgatgata	ttgatttggc	tggtgatatc	300
atccagtcaa	tggcatcatt	ttttgtctatt	gaagaccttc	aagtagaagc	ggattttcct	360
gtctattttg	agggaattac	ggaaagggtg	tagttaagggt	ggatgaatat	cctttcagtg	420
cattcagaag	ctccagtgtc	t				441

<210> 231  
 <211> 333  
 <212> DNA  
 <213> Homo sapiens

<400> 231						
gggtgtccag	gaagtcagcc	attactcccc	agtgggaatgg	atccaactcg	acaacaagga	60
catccaaata	tgggtgggcc	aatgcagaga	atgactcctc	caagagggaat	ggtgccctta	120
ggaccacaga	actatggagg	tgcaatgaga	ccccactga	atgctttagg	tggccctggg	180
aatgcccggg	aatgaacatg	ggccaggtg	gtggtagacc	ttggccaaac	ccaacaaatg	240
ccaatttcaa	ttaccatact	ccttcagcat	ctccctggga	atcttattgt	aggtccctcca	300
gggaggttga	ngggccacca	gggnacaccc	ttc			333

<210> 232  
 <211> 402

<212> DNA  
<213> Homo sapiens

<400> 232  
ccctttacac agactcactt gtcactcact gccatagagt acagccacag ccacgacagg 60  
tacctaccag gtgaaacott tgtccctgggg aatagtcttg cccgctcctt ggaaccacac 120  
tcagactcaa tggactctgc ctcaaatccc accaaccctg tcagcacctc ccaaaggcac 180  
cggcctctgc ttccatcctg tggcctccca ccaagcactg cctcagctgt gcgcaggcta 240  
tgctccaggg ggtcggaccg atacctggga gagccgogat gcctcttcga ctgagtggcc 300  
gggacccctt ccttcctggg acagttcgag gatgttgatt gcagttttgt tccgggggaag 360  
gttgattcct caggtttggg accccaaggt tgaacctgtt tt 402

<210> 233  
<211> 492  
<212> DNA  
<213> Homo sapiens

<400> 233  
tgggatcata aggagccctt aaatacttgt tattgactgg ggttattttt atgctgtagc 60  
aaatgtgaca ggctcttttt agcaaaattt ttgaaaattt ttttggtatt actctgaaac 120  
aaaattttaag ttggagtttt agggatttag ggagtagttt tcattctaca tgaactgagg 180  
taatatattg gtaactccaa tatttgggtta aaaaaactat acaaatcaga atagtactaa 240  
aatactgtag gaatttttag catttttatt ttgcactttg tgtgggattg aggggtttca 300  
ggaaataccc aaccatttaa aaatgtaatc tagttggggc aaagggtgtg cggcttaaaa 360  
cacgggaacc cgaacntggc nttggnttgg ggntaacttt ttgaggggtt ttttgtccaa 420  
naggccntgt ggaggagtta ccatttttctn ttaaagggtg ggtgggtccc cctgtccaga 480  
gttctnngggg ac 492

<210> 234  
<211> 321  
<212> DNA  
<213> Homo sapiens

<400> 234  
cgtggcactc caccagctct accaatacac gcagaagtac tatgacgaga tcatcaatgc 60  
cttggaggag gatcctgccc ccagagaagat gcagctggcc ttccgcctgc agcagattgc 120  
cgctgcactg gagaacaagg tcaactgacct ctgacctaca atctccagtg ctgccttggg 180  
acataggtac ctgaggtacc tgagagcccc tcaggggangg nggcccagtg gctgtggctg 240  
aggcccccac cctccccctg gaacgcgccc caagccggan tgggtgcagc cggaaccn 300  
ccagcgtttt agactgtagc a 321

<210> 235  
<211> 359  
<212> DNA  
<213> Homo sapiens

<400> 235  
gcttgctatg aagcagtgtg tgaatggaca atgttgaatg aatgtctggc tcagtgatgg 60  
agagccagggt tcatctttga aatctagggc tcttcactca tgaagcagac tcttagtctt 120  
ggagtgactg tgtacgagag cgtgggttgt gtgctgtatg tgaacgcagt caagcttgat 180  
tcaccttcag ggggctgata acctagtaaa tcatcaaaat gagatcataa gtgttaatgt 240  
acactggaca tgaaaacaaa gactgggtta gcagcagaca ttggtttact ctgcagcctg 300  
tgtttttctg tttccccctt cccacctctt tccccccacc caatcctttt tttttttttt 359

<210> 236  
<211> 306  
<212> DNA  
<213> Homo sapiens

<400> 236  
gtgatgatgg gcagcctggg gtacctggcg ctgggcttgg agaagtcacc ctactgccac 60  
ctgctggaca gcagccactg ggcagagatc tgtgagacct ttaccggga cgcctgttcc 120  
ctgctggggc tttctgtgga gtccccctt agcgtcactt ttgctcttgg ctgtgtggcg 180  
ctgcctgtgt tgatgaacat caaggctgtg attgagcagc ggcagtcncc tgggggtctg 240

aattanaagg acganttacc gattgagatt naactaggca tgaagtnctg gtaccactcc 300  
gtnttc 306

<210> 237  
<211> 395  
<212> DNA  
<213> Homo sapiens

<400> 237  
gtcaaaatat tacagtagaa tctgagtgtg atatgtgtaa ccaaaatgag aaagaataca 60  
agaaatgttt ctggagctag ttatgtctca caattttgtg gaattttaca gcatctttga 120  
taaactttctc agtgaaaatg ttggctaggc aagtttcagt aaaatatagt agaaatgttt 180  
acctgtgtat ctctaagtat acatttaatt gtacagaaaa ttacagtggt aacattgttc 240  
aacattttgca gattgactgt atatgacctt aatctttgtg gcagcctgaa ggatcagtggt 300  
agttaatgcc nggggaaagt gcttttttac ctaggacttc cntttctcagc ttctcccttc 360  
aaagagaccc ctaantatgg ccttttttggg tttgt 395

<210> 238  
<211> 440  
<212> DNA  
<213> Homo sapiens

<400> 238  
gacaatccat taattccagc tgcgtgcata gatcacattt ttaaaatgta aaaatgcaag 60  
caaaaacagc tgtaacaaag aaagtgtgct caaggaccaa agattttaaca gataaaaaata 120  
cccaattaga agagatatag tagactatat gaagagagat tatatttgtt acacaccaat 180  
atacatcaaa gtgcctgttg ccttctgaaa atttgaagtg gcaaaattat tttatggttt 240  
aatgattatt ttattttatc agggactgcc tcaagaagaa aataacataa gcttgtggaa 300  
tgggtgggag aaaatgccct atttttctct ggcaaatact tgtattaaag ttaacnttgt 360  
tggatcntga tattatccta gggtaacngt tatgtgtgta ttaattatan ggtgtgtgtg 420  
tanattatac cntttatata 440

<210> 239  
<211> 507  
<212> DNA  
<213> Homo sapiens

<400> 239  
nggctcctat cagtgcacct gccctgatgg ttaccgcaag atcgggcccg agtgtgtgga 60  
catagacgag tgcgctacc gctactgcca gcaccgctgc gtgaacctgc ctggctcctt 120  
ccgctgccag tgcgagccgg gcttccagct ggggcctaac aaccgctcct gtgttgatgt 180  
gaacgagtgt gacatggggg ccccatgoga gcagcgtgc ttcaactcct atgggacctt 240  
cctgtgtcgc tgccaccagg gctatgagct gcatcgggat ggcttctcct gcagtgat 300  
tgatgagtgt agctactcca gctacctctg ttcagtaccg ctgctcaac gagccagggc 360  
cgttntttcc tggccactgc ccacaggggt taccagctgn tggggccaaa ggnnttttgc 420  
aagaacattt gattgagtgt tgagtttggg tgcgnaacag tggttccgag ggnccaaant 480  
ttgttaaatt tccatggggg ttaacgt 507

<210> 240  
<211> 369  
<212> DNA  
<213> Homo sapiens

<400> 240  
gagacagatg gccaccagg agctgttgcct ctgggtgcct tcttgcaggc cttnagagaag 60  
gaggtcgcca taatcgttga ccagagagcc tggaaacttg accagaagat tgttgaagat 120  
gctgttgagc aaggtgttct gaagacgcag atccccatat taacttacca aggtggatca 180  
gtggaagctg ctccaggcat cctgtgcaaa aatggggacc cgcagacacc tagatttgac 240  
cacctggtgg ccatagagcg tgccgggaaga gctgctgatg gcaattacta caatngcaag 300  
gaagatggaa catncaagca cttnnggttga nccccattna acgatccttt tctttnngctt 360  
gcgaggang 369

<210> 241

<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 241  
aatcctaattc aaattgtcaa agctacaaaa ggggggaaga catctgtatt anttttggta 60  
agtcacaaca tcctaaaaaca aaatactact actgtcagca gatccattat acacattttct 120  
gatgaaatcc attagaacaa taaaaatttc atcttgagaa atagccacaa tgaaagtaat 180  
ttacacaata taaaacaatg acagntctac agatgcagtc gctcatgagt ttacacatgc 240  
atacacia 248

<210> 242  
<211> 288  
<212> DNA  
<213> Homo sapiens

<400> 242  
gtttccaaaaa ttcactgtac atgatcagtc tgggtgttctt gtaccacagt ttttaactga 60  
aggaaccagt tgtaacagtc tcaattttta ctaaaaacttg aagaactaaa acaacaatgc 120  
aaactctttca gcattgtttg gccaaaacttg ttaaaaactgt aatgcaagaa ccaaatgcac 180  
tgtgatgtgg caccaactaa tttagcaagca tgahttttyc acccaagagt gaaaaaargga 240  
aaactctacca tggcttgaag ttaaagrgca gamctcctga ctaccatt 288

<210> 243  
<211> 423  
<212> DNA  
<213> Homo sapiens

<400> 243  
aaagagttaa ggaaggcagg ttgtntcttct attcaggncat ctcttcgctt tncatgtact 60  
gcatgctgtt tgtggcactt tatcttcaag ccaggatgaa gggagactgg gcaagactct 120  
tacgnccac actgcaattt ggtcttgttg ccgtatccat ttatgtgggc ctctctcgag 180  
tttctgatta taaacaccac tggagcgatg tgttgactgg actcattcag ggagctctgg 240  
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anagaaaaga ggaggactct catacaactc tggcatggaa acaccaacaa ctgggggaatc 360  
actntgccga gccaatcacc agccttgaaa ggcagccagg gtgccnaggt gaagctggcc 420  
tgt 423

<210> 244  
<211> 460  
<212> DNA  
<213> Homo sapiens

<400> 244  
ccaacagtat ctctgcac aaacgcctct ctgggctcct caaagtcctt gatatcatgc 60  
ccttgaccct gcatgcctgt atgcaccaga agcagaggct cagaaacctg gagcagtttg 120  
cccgtctgga agactgtgtt ctcttggcaa cagatgtggc agctcggggg ctggatattc 180  
ctaaagtcca gcatgtcatc cattaccagg tcccacgtac ctgggagatt tatgtccacc 240  
gaagtggctg aactgctcga gctagcaatg aaggcctcag tctgatgctc attgggcctg 300  
aggatgtgat caactttaag aagatttaca aaacgctcaa gaaagatgag gatattccac 360  
tgttccccgt gcagacaaaa tacatgggat gtgggttcaag gagcgaatcc gtttttagctc 420  
gacagatttg aggaatctga gtattcggaa ctttccnggt 460

<210> 245  
<211> 2533  
<212> DNA  
<213> Homo sapiens

<400> 245  
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cgagctccag ccaatggccg ctacaagcca acttgctatg aacatgctgc taactgttac 180  
acacacgcat tcttcattgt tccggccatg gtggggcagt cctcctcca tgggtgtct 240  
gatgactgct gggaaaagat aacagcatgg atttatggaa tgggactctg tgccctcttc 300

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cattgttttc	acatgtgtga	tagaatgggt	atctatttct	tcattgtgtc	ttcttatgtc	420
ccatgggttaa	atcttcgtga	acttggagcc	ctggcatctc	atatgcgttg	gttttatctgg	480
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gaactctttt	totatctcac	aatgggattc	tctccagcct	tggtgggtgac	atcaatgaac	600
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ggcacttggg	agtgggggtga	gagctaaaaca	ttgcacaggg	caaagaaaaa	aaataactgc	900
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attttacaga	ttttactaca	tgatttttct	aaattactat	gtcaggttgt	aaaagtccagt	1140
gcaataacaa	accttctctt	tttaagaagaa	aattgtttct	attactttcc	cattcactag	1200
gtaagaatc	atggacagaa	cttacactac	tttttaccat	gtttcatctt	ggcataaacat	1260
gggtcttttt	taaaatgaaa	ctttagtctt	ttgtaaaatt	ttaaaaaaat	atttcattga	1320
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cacaaacgaa	caaacattat	acctcttctg	atagtctttt	taagcatgga	gaaattgcca	1440
attttttaaaa	actgcagttt	tccaaacttt	tctgccaacc	tcttactctg	aattcagttc	1500
tgctttggga	catatacttg	acctagcttg	gtttaccagt	gatggaaaag	tattttgata	1560
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attgtgtttt	tttttttttt	cctagaaaaa	atattttaaag	cattgtttga	caggtagaaa	1920
ctcatgtatc	tgtagtccat	gagtttatat	ctggctcagt	ggagtgatat	ttatgtatta	1980
tttttacttt	tctctcagtg	tcttatatta	agattaacat	gttgttaata	gttgcctttgt	2040
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ctgataattg	ctgttttcta	gtaattgggt	gatcaaatga	tcagtggaa	tcttgggtttg	2160
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atatgttttag	aactctctga	ttttgatgaa	ttatatggga	gtgagaaaca	gaagaagtgg	2280
tatttgctgg	cgagttaaat	aggcaaggta	cccagtgata	acaccaacca	aacctcctt	2340
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tatattaact	ttgtggattc	atttaaggct	tactcaaaaag	taacactgtc	caaaccacta	2460
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aaaaaaaaaa	aaa					2533

<210> 246  
 <211> 6072  
 <212> DNA  
 <213> Homo sapiens

<400> 246	gggtgggtcggc	ggggaggccc	ccgcgcttta	aaataatgcc	cgcgggcgccc	gcgcgacccat	60
	gcaatggcga	gcgctcgtcc	tggggctgggt	gctcctccgg	cttggccctcc	atggagatttt	120
	gtggctcgtc	ttcgggctgg	ggcccagcat	gggcttctac	cagcgctttc	cgctcagctt	180
	cggcttccag	cgtctgagga	gccccagcgg	cccccggtcg	cccacctcgg	ggcccgtggg	240
	ccggcctggg	ggggtatccg	ggccgtcgtg	gctgcagccg	ccggggaccg	gggcagcgca	300
	gagcccgccg	aaggctccgc	ggcgctcctg	gcccgggatg	tgcggcccag	ccaactgggg	360
	ctacgtgctg	ggcgcccggg	gcccggggcc	ggacgagtac	gagaagcgct	acagcggcgc	420
	cttccctccg	cagctcgttg	cccagatgcc	cgacctggca	cggggcatgt	tcgtcttttg	480
	ctacgacaac	tacatggctc	acgccttccc	ccaggacgag	ctcaacccca	tccactgccg	540
	cggccgtggg	cccgaaccgg	gggaccttcc	aaatctgaac	atcaatgatg	tactaggga	600
	ctactcattg	actcttgttg	atgcattgga	tacacttgca	ataatgggaa	attcatccga	660
	gttccagaaa	gcagtcaagt	tagtgatcaa	cacagtttca	tttgacaaaag	attccaccgt	720
	ccaagtcttt	gaggccacga	taagggtcct	gggaagcctc	ctttctgctc	acagaataat	780
	aactgactcc	aagcagccct	ttgggtgacat	gactatgata	attgagttgt		840
	atacatggcc	catgacctgg	cgggtcggct	cctccctgct	tttgaaaaca	ccaagacagg	900
	gattccatat	cctcgggtga	atctaaagac	aggagttcct	cctgacacca	ataatgagac	960
	atgcacagcg	ggagccgggt	ccctccctggt	ggaatttggg	attctgagtc	gactcctggg	1020
	ggactccaca	tttgagtggg	tggccagacg	agcagtgaaa	gccccttggg	acctccggag	1080
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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<210> 317  
 <211> 572  
 <212> DNA  
 <213> Homo sapiens

<400> 317	cgccgcattg	tgggtccgctt	ctctgcacta	tgtcgggttg	cctcctgaag	gcgctgcgca	60
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	ttcgcacaga	ctgggacgca	ggcttttaagg	agggcaggca	atacggccgt	gggcgatctg	420
	ggggccagggt	tgggatgag	tatcggccagg	actacgatgc	tgggagagga	ggctatggaa	480
	aactggcaca	gaaccagtga	gtgggtgagag	ctctgtcagt	gacaaaacact	cctttggcct	540
	gttgaatttg	ctgaagaaca	tcacctaaag	tc			572

<210> 318  
 <211> 338  
 <212> DNA  
 <213> Homo sapiens

<400> 318	caatgcttga	agtataaaaa	gctgagagctg	ttctcgggca	gggagttctc	agaaccagga	60
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	cagatgtaga	gaagagaagg	cgattgctag	agagccttgg	aggccacgca	cttgatgtta	180
	ttcgtgttcc	tcaagataaa	caatccttta	attactgtcc	gatgaatgtc	tgcagggtct	240
	tgaggaggta	tttgggggtta	cagataatcc	caggaggttg	cagggtcaaat	atctaaccac	300

nttaccagaa ggatgaggaa aagtgtcgg cntatgtc

<210> 319  
<211> 451  
<212> DNA  
<213> Homo sapiens

<400> 319  
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acacaacatt tttctgggatt ataaatattt tataacagta ttatacaaaa ttttacaaaa 120  
tggtttttatc aggcctaggta attttccaaa aagtgtcaag agaacaaaaa aaaggggaga 180  
aaagatctat tgttcacaaa agccagttgg cctttttgcat gaatgcacac catttttaata 240  
aaagtattcc taaaagcatg atccgacact catacaacac aacaaaaaaag acagcttttac 300  
taggtcacat tataaaactca actggcatct acacaagaca gtatcccat agttttcagt 360  
gaatttgaga taactttgtgt gaactagaaa taaggttagat gaagagttgt ccaattcttc 420  
naaaatctgg aatttttttt cactctccaa n 451

<210> 320  
<211> 359  
<212> DNA  
<213> Homo sapiens

<400> 320  
gcctactgca ccgcccaccca caacgtgagc cccaacatct tgccttgggt ctacagggag 60  
atcaatgatg acctgtccta ccagatggac tgccacgccc tgnagtgcga gagcaagctc 120  
gaggccaaga aactggccca cgccatgatg gaggccttca ggaagacttt ccacagtatg 180  
aagagcgacg ggccgatcca cagcaacagc tctccgaag aggttttcca ggaattggaa 240  
tccgatgatg gctgaatgaa ctttnagacg ctttnagcaa ggcagcattg gtcacggggg 300  
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<210> 321  
<211> 295  
<212> DNA  
<213> Homo sapiens

<400> 321  
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gctcgttctt agcttcgacg aggagaagag gggggagtag ctgacaggct tccacaagcg 120  
gaaggtcgag cgaaagaagg cagccattga ggagattaa ggcgggctga aagaggagca 180  
gaggaagctt cgggaggagc gccaccagga atacttgaag atgctggcag agagagaaga 240  
ggctctngag gaggcagatg agctggaccg gttgggtgaca gcaaagacgg agtcg 295

<210> 322  
<211> 406  
<212> DNA  
<213> Homo sapiens

<400> 322  
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ggactgtgtc ctacacaacag gagaagtttt caggttgctg gnggnagagg gggctcgggg 120  
ggctacctgg agcacgtgtt cgggcacgag gcccgagagc tcttttggat ccatgtggct 180  
gaggttacct acaaaacccct gaggaacaaa gacttccagg aggtgacact ngagaaggag 240  
ggccaggtgc tgctgcactt cgcaatggcg tacggcttcc gcaacatcca gaacctggtg 300  
cagaggctca aacgagggcg ctgcccctac cactacgtgn aggtcatggc ctgcccctca 360  
ggctgcctga acggcggggg gccagctcca ggtcccagac aaggcc 406

<210> 323  
<211> 489  
<212> DNA  
<213> Homo sapiens

<400> 323  
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cctcttcatt	atgattggcc	caccccttaa	aaagactgca	acagaggatt	caattgtcta	240
aaatacttccg	aagtacagaa	attaaatgct	ttagcccata	aacatatccc	tcactctattg	300
tgttggttagg	gaacacatga	gcaaaaatcta	tcattcgcac	ttctacttca	gcaatctctt	360
ggcaaccagt	gggaagatgg	tagaaaaactt	tntccagtgg	ggaaagtaca	tttccatttta	420
aatgttccctg	tgacatgctt	ttccaccccat	tgtcttgctc	cagatttttca	actttcaatg	480
aagtctgcac						439

<210> 324  
 <211> 491  
 <212> DNA  
 <213> Homo sapiens

<400> 324						
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gttgggaaat	gtacataagg	ccgcttgtaa	atgtacatcg	tgttactgtt	atgtcttatg	120
tccagaggaa	aaaaatgttat	catcacagatt	tgcctcttact	tgggagttagg	ctattcaaaa	180
atacagtact	cttctgtaca	aagaaaaaag	tcacatcaca	tttaataaga	tgaaaaaagc	240
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gacttcaatt	gaaaagtgatc	caaattcttag	caggtccata	ttaacagtca	acaactatgt	360
tataaaacaa	aatgatcttca	caataataaaa	aagaaagctg	gttcatactt	ctgaaaccat	420
ataaagataa	aaaatttttta	aaaaatcact	ctcgattttg	agaaataaat	ttacattata	480
caacactata	t					491

<210> 325  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 325						
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tatttactcc	ccacaagaga	tgaaagaaat	cctgtagtat	atggagtctt	tactacaacc	180
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tccaccggag	attttccaga	tgatgtcctc	agtttccataa	agcggcactc	tgtgatgtat	420
aagtccgtat	accagttgc	aggaggacca	acgttcaaga	gaatcaatgt	ggattacaga	480
ctgacacaga	tagtggtgga	tcatgtcatt	gcagaagatg	gccagtaaga	tgtaatgttt	540
cttggga						546

<210> 326  
 <211> 456  
 <212> DNA  
 <213> Homo sapiens

<400> 326						
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cccattgcgta	ttgatgagag	cattccacctc	cagctgcggg	agaaatatgg	ggacaagatg	180
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aagttcctgt	cgctgttagt	gcccacttat	gataatgtgc	accccaacta	ccacaaagag	300
cccttctctgc	agcagctgaa	ggtgttttct	gatgaagtac	agcagcaggc	ccagcttttca	360
accatccgca	gcttccctgaa	gctctacacc	accatgcctg	tggccaagct	ggctgggcttc	420
ctggacctca	cagagcagga	gttccggatc	cagctt			456

<210> 327  
 <211> 462  
 <212> DNA  
 <213> Homo sapiens

<400> 327						
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ctgtatgttt gctatgttgt acaatcttaa aaatttgctg attcatagtt tgtaaaaaaa 120
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gtatcctgat tcaactatct ttgtatccta ttgtaatgc aaataaaact ttactccaaa 360
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<210> 328  
 <211> 457  
 <212> DNA  
 <213> Homo sapiens

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<400> 328
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tccagctgaa gaaacacctt aattctggaa atagcgactc agtatcatgg ccagcagcct 180
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<210> 329  
 <211> 448  
 <212> DNA  
 <213> Homo sapiens

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<400> 329
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ctcaggataa atcatatctt taaaataata ataaaaaaat ttacaccttg tcttatatcc 180
tgttagtatt ttcataatat ggccatgatt gaaaaaaaca aaagcaagca tctacaattt 240
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caggctgatg tcaatctatt ttgttaattg atcattaaca aattttattt ggaaaagata 360
aaaaatattg ccttgataa taaatctttt tttcttttga tgcaaacagc tagaacacct 420
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<210> 330  
 <211> 373  
 <212> DNA  
 <213> Homo sapiens

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<400> 330
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tgaacatggg catcagaggg cagtagcttt cttggccctac agagttaaag gacaatatat 180
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ggaccgatcg aatgcaccaa atatcccaaa actcaataga ttcttctctc tgttcatttg 300
attcgtctgt gtcctattga gttttttgat ggctagagta ttcattgagaa tgaaactgcc 360
gggctatctg atg 373

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<210> 331  
 <211> 306  
 <212> DNA  
 <213> Homo sapiens

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<400> 331
ggcgaagagg accaggacta tgacatcacc cagctccacc gaggtctgga ggccaggccg 60
gaggtgggtt tccgcaatga cgtgggacaa accatcatcc cgacacccat gtaccgtcct 120
cggccagcca acccagatga aatcggcaac ttataaattg agaacctgaa ggcggctaac 180
acagacccca cagccccggc ctacgacacc cttctgggtg tcgactatga ggcagcggc 240
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gattat 306

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<210> 332  
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<212> DNA  
<213> Homo sapiens

<400> 332  
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<210> 333  
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<212> DNA  
<213> Homo sapiens

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gttaatttagt ggaat 255

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gccgtgacat catccagcgc atgcattctc gccaatacga gctgctctaa gaaggggaacg 180
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gcccaggaaa cttgg 255

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 <213> Ratte

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ccaaaaacaaa agaaggcaga ggaagctgtc taaaccgtcc tcggcctgtc ggaatgggtg 180

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ttaatcccat gacaa 255

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gagtttcttg attacaaaca ccaactggagc gacgtgttaa ntggcctcat tcaaggagct 180  
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accgattaaa tcttt 255

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tagacttaat aaaat 255

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<400> 378

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tcaatgctgt 250

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gctttgatga agaagcctca gggttcatcc acgaagacca cctgcgggag ctgctcacca 180  
ccatggggga ccgattcacg gatgaggagg tggacgagat g 221

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tcctcttcgc caccaccttc ttctccataa tagaagacat tgtcacgagt gtcacctctt 180  
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agaagggtca gtaga 255

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<400> 382  
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aacatattcg ttgcaacagc taactttgtg ttttcatggt tttttatgtt ttgttttgtt 180  
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acaactgccc gcatt 255

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cgagtgcac agatt 255

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attactctct 250

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agaagaaaaat gagat 255

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<212> DNA  
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ggattttttt caggt 255

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<212> DNA  
<213> Ratte

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caattaatct ttttc 255

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<400> 423  
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tgctcacaga ctcat 255

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tcgggcattt ctgtg 255

<210> 425  
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tcgctcagta ttttc 255

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<400> 426  
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 ccattaaggg aagag 255

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 agcttgaaga acaga 255

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<400> 428  
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 ccaggtatag gactaaagt agtattaggt tgaatattga tgtagactct ttgtgtgtcc 180  
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tggtaggcga cagga 255

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aaggagagat aaatt 255

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<212> DNA  
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tagaaactat agcaa 255

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acgtctcaat gaggtaatcc tttccactgtc tctaaaagtc cgacagaaac tgagttagct 240  
cacgaggaca gattt 255

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aatgggagga ggtaa 255

<210> 437

<211> 255  
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tttgttctgt tttgt 255

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aactgctcat tgta 255

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<212> DNA  
<213> Ratte

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 <213> Ratte

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cacggagccc tctagacca caagggcata ctatggaaat attaatTTTT ttggagggcc 180  
ttctaattgc tcagtgaagg cttctgcaaa actgagacag ctgggaagagg agaacaagga 240  
cgccatgttt gtgat 255

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<213> Ratte

<400> 451  
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ttccaccttt gtctcttttg ggaaaatgaa ataaaaaang ttgattgtgt tttcttctcc 180  
ctggaaatag gcagaagggg tgggggtgggt gagccttggg gggctcaggc ttcccttgca 240  
ggaaaggcaa atgca 255

<210> 452  
<211> 255  
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<400> 452  
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caaaggtata ttggaatcgc tcatttgttt gtgaattttt ttattgaacc cacctactca 180  
aagctagggc accccggacc tttggcccat ccacaccgtt ctccatctgg gggactaac 240  
ctgtttcaaa accag 255

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<211> 255  
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<400> 453  
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gtttattgta ttatgggtaa aaataaaaacc aggtcaggaa gcacagcaaa cgaaccaacg 180  
ctgtaagcta cacaaaaaac attctgggca gcttttttaa agccaggcac aagaaattca 240  
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taaaaaatta tcccc

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<212> DNA  
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<400> 454  
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ccatacctaa acatagtaaa cccactaaaa tcagggacta gacaaggctg cccactctct 180  
ggagagaaac ttgaagcaat cccactaaaa tcagggacta gacaaggctg acaaaaaggag 240  
ccctacttat tcaatatagt tcttgaagtt gtagccagag caatcagaca acaaaaaggag 255  
gtcaagggga tacag

<210> 455  
<211> 168  
<212> DNA  
<213> Ratte

<400> 455  
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ttttttttt ttacacaaag acagaacttt attaatggaa ggcttctctg atggcctg 168  
gtgggccccca gggcagggct tggtagcacc atgatggggg atggcctg

<210> 456  
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<213> Ratte

<400> 456  
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tacttactca caggtgaagc agaaattcta ttttaaccagc aagtttctgc ttttttaaagt 180  
tactttcaca ttaccaacat cagggaaatg aagagagggg gtgttttgct ttgggttatg 240  
gtcacgaact aacta 255

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ggcatgatgg agtttgccca tcagtagcaa atcctttaga agtttacctc attcccacac 180  
caccagaaaa tatcaccttc gaagacccat ccttagatgt aatactactc ttaagagttt 240  
tacatgccat cagtc 255

<210> 458  
<211> 250  
<212> DNA  
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caaaaaacaca acagtttttct gggctctgtg tcagttacat tacattttta agcaaacacgt 120  
aatctgtaaa attgtcccaa gacatccatt cctctaacgg ttcccatacc ccattcccagg 180  
cccagacctc tgtgaaggcc acgggctctc agtgcctccc gttactgatg acagccgact 240  
caggttcgcc 250

<210> 459  
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gactgaagga gaaacatttg agaaagaagc cttccagaag gcgaggtggg aggggtgtca 180  
cgctggcccc tagataaaga tgattgagca acagggcttg agtagtagct aggtggaaaa 240  
aagagaggac aaaag 255

<210> 460  
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<213> Ratte

<400> 460  
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aatttcatct tgagaaaaa gccacaacaa aagtaattta taccatataa aacaatgaca 120  
ggtctacagg tgcagttact catgagtta cacatgcatt ca 162

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<211> 255  
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<213> Ratte

<400> 461  
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taaaaaatgg tgtatgtttt cccctctttt taaaaaaaaa aaaaaaaagaa taatctttgc 180  
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cacaatgaaa agctcactaa ctagattagg aacagatgat gctgggtgtga atagcttgtt 120  
gttttactct agagccctta aagaaaaatcc ccgttagtgt tttgtgttac cagccagagg 180  
gtcaggggtt agtgaacatg tggtaaaatg aggacttatg caagggttaa tacgcatagc 240  
attcttctac tttgt 255

<210> 463  
<211> 236  
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<400> 463  
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agagctgggt ggaagggggt ggactggagg ggctggcggt tcgcagcaga gcgggactat 120  
ctgaagaaaa taattctcta ttatttttat taccacatgc ttctttctga ttctaaaaata 180  
tggaaaaata aatattttaca gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agcttg 236

<210> 464

<211> 177  
<212> DNA  
<213> Ratte

<400> 464  
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agcaaaagtg gggacataaa gaagatcctc atgggtcttg acaagatgaa gaaaacagcg 120  
tgtgggtctct gtttcgtgga atactattca agagcagatg cagagaacgc aatgcgg 177

<210> 465  
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<212> DNA  
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ttgggatttg aaattctcga caccaccaga ggggaaaccc cagggcttct gtttcctcgc 120  
aattggctgt aactgcctcc ttggccatgc taagggtctt taaaaacagg gtcattctgt 180  
gttcattctt ctgccccaac cctactatga aacaagataa cccctctgtt ttctaaatgt 240  
atcaagggat accac 255

<210> 466  
<211> 255  
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<400> 465  
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tttttttttag ttattctgtt tocaagtggg tctctctcac acgtgggtata tttagcaaaag 180  
ttccattttt aatattctgt attttgttgt ttccaagacc cagcctctgc agttccttgt 240  
atcgttttaa atctt 255

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tggaatgaag ccgaattggg cggattttcc ttgtgctgca attagtagtc ctgtgagagg 180  
gactagattg ttgggtgttg ttaagaaaaa ttgttggagt tctcaggagt ttatgtttag 240  
gcagaatcag 255

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<400> 468  
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gattacgaga tgtcaatcat ganaaagcga tggccgagtg ggtaaaacag caagctgagc 180  
gagaggctga aaaggagcaa aggcgccttg agagactgca gcgaaagctt gcagagcctg 240  
cacactgctt tgcca 255

<210> 469  
<211> 223  
<212> DNA  
<213> Ratte

<400> 469  
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tccctgctca cagatggcag ggnccctgttg agaccacagga tccctgtccag gtggaaggca 120  
aacacttcac tcatgtccag aggttgcttg anaagccac aggggctagg gccgcagcca 180  
ggcacagagc ctgaggngct tccctccaac atcagcaagg ggg 223

<210> 470  
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<400> 470  
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tcagcagaca tgggtg 255

<210> 471  
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<400> 471  
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cagagatctg tgagaccttt actcgggggtg catgtccctt cctggggctt tcagtggagt 120  
ccccactcag tgtcagcttt gcttctggct gtgtggcact gccagtgtg atgaacatta 180  
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ttgagattga 250

<210> 472  
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<400> 472  
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gatgttagtt caggaaggat tacgtctcca tttgtgttag tatgtgtgca tcagctccat 120  
ggatagggac cacgtggcag ccactctggat tgtcaatagc tggggataaa aatcccaagg 180  
aggacataag cagaaaaagg agcaatactt cctgggttggg accaaactca aaccagagat 240  
cttaatgcac cagac 255

<210> 473  
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<400> 473  
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taggtgggtat aatgagtagt atcatctttac tacttgccca agtttgaca cctactaaat 120  
aagtcaatgg aattcaagcc taattctgtc tggcttttct actggattgc tottccatcat 180  
tacatgaaac tacaataaac agtttatagt tatactagcc ttttataatg aattcagagt 240  
ttgatacgtt 255

<210> 474  
<211> 255  
<212> DNA  
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<400> 474  
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cagaactact aagtgtgccc aaagggcaaa aaactcaaga gggagggtat tctgagctgt 120  
gtgagttttc aaactcacia gataaaacgc aaactcccaa gaagcatgtg attcaaaaag 180  
ttaccacctt cttttgggtt ctgacctgtt cttagggtgc aggttgccag accaggctgg 240  
ttgacttctg agata 255

<210> 475  
<211> 255  
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<213> Ratte

<400> 475  
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ttaaattatg ttttgttttg tttccatta aatgcagggtg aatgtgttca gatgtaaaat 120  
atgttttgcg gaatgtggac agtttatata cataacacat attctctctg aaatgactct 180  
gtatataagg cagggtgtgt tgtgcatgcc tgtaattcca gcagtggga gatagaggtc 240  
aggatcattc aaggc 255

<210> 476  
<211> 255  
<212> DNA  
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<400> 476  
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aaactgactc gcacgtccct agcaggggtt ccggttcttg tgcgatgtgg gtgggaaaca 120  
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gtctttccaa agtct 255

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<400> 477  
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agccaggaca gaggacgggc acctgaggac ccaagatgag acttcctcgc agagagacat 180  
cccgtttgag atgtgggatg aactgactta atctgatcta aatctgtata taatccacat 240  
ctgtaatcaa ggatg 255

<210> 478  
<211> 255  
<212> DNA  
<213> Ratte

<400> 478  
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tcagcttcag gattatggac agaaatcacc atgacctggca tgtaactatt tttgaggctg 180  
aaatagctaa tgaaaagccc tatctagatc cagattttat atgacatcaa attaggggaag 240  
tggaggggaat tattt 255

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<211> 255  
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ctttctctca tttccttctc aagacttaaa aacatcagta attgaggga tctcctgat 240  
aaaagtcccc tagaa 255

<210> 480  
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<212> DNA  
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 agagcacgtt gggccacctg tggcatcaag actgcaactt gacaatcacg gtttgcgtat 180  
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 tgtttgtcag t 251

<210> 481  
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 gaaaagaatc aaggactgat atatatctct caggcacata agaaatgact tattaataaag 180  
 tgaaaaccag gtgcttgctc acagtctagc actgccagga gggatagcac acacctgtaa 240  
 ccctagctct gggga 255

<210> 482  
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 <212> DNA  
 <213> Ratte

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 aacacccctc ccacttccct agtttttctt gtttttggtt gtcttaacaa aggggtgtaa 180  
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 gccaaaaggtt tcttc 255

<210> 483  
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<210> 484  
 <211> 255  
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<400> 484  
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<210> 485  
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gtaacaatcc tctgtttttc agcatgggtg acttccaagt ccaaggccta gatccagttt 180  
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 ctaactgttc actgt 255

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 <212> DNA  
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 tatgtatagg gtttttaaaa tgtgattcct ttgtttgaat attaatggct ttttccatta 240  
 aagaataaaa tgata 255

<210> 487  
 <211> 250  
 <212> DNA  
 <213> Ratte

<400> 487  
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 aaatacacac cctgtggggc tggcagctat accatcatgg ttctttttgc tgaccaggcc 180  
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 gctgaaggtc 255

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 <211> 255  
 <212> DNA  
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 attgtattg aaacc 255

<210> 489  
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<400> 489  
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 tatcacatta caagtcattt gtgattttta aaagttagct gccataaatt ttggaaaatg 120  
 ccagtgttta aaaagttaac tgtgctaaaa ataaaagtgc agcagaacag aaattgaggg 180  
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 ctgttctctt tacat 255

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<400> 490  
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 aatatgcaag tgagcagggc cctgtggcc ttacaccttg ttctcaacat actgtcanta 180  
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tccttccaga acacacccct ccagggtctta aaggagaacc ctgctttttg tcttgtggct 180  
acatgaagct gcttcagttc tttcagaaca tcattttatac tgaaggattt gatggagcta 240  
atccccagaa aaaac 255

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catagaagga tttgggaaag aaatgtaaaa cagtgcacct gctgtgtgac taaccttgag 180  
gagtcctggc taagtgtctac ccgagctggg aaggagcttg ccactgaatc acagaagcct 240  
ctttagtatt caggt 255

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<400> 493  
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attcaggggc gacagacaga gctgtgacat gtccatgcc a tcttcccta gctactgagc 180  
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aatactccgg ccagt 255

<210> 494  
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ctttccgctt cattggctac accttgacct aacgttttta tgttngttct tgncttact 180  
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gtaaggtaga acggg 255

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ttcttaagtg cttcaccaaa tttgttcatt gctttgtatg cctgggcaca ttctgtctgg 180  
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 acctgactga agtaggtcac atcctttcaa cacattactt tatagacaaa tggctattat 180  
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 ggaagttaaa acctttcagt ctgtgtgtat agcagttgtg ctatttttaa agcaactcctt 180  
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 gaccaatttt aagttttctta agttatttcc tttaaagtat atattaaact gaaacctaaag 180  
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 gttgccttca tcagagaaga ctccattaat tcagtgtccc aatggcgtcc tagggaggca 180  
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aagagctcca ggccttgctt ccttgatga aaggctcccc agtttaaaaa gaggttctgag 130  
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 aatctggagt tttctaaagc atgggcaaat ggggcttttg tcaaaacaac actcctttga 180  
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ccgtccctct cagacacact tttgaatgtg ttagagaaag tctgggtgga ctttataagg 180  
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cctaaaaata	ggggcatcac	gtttgtaaat	gttttacagt	ctgaactcca	tgtcacgtaa	180
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caatcttctg	atttctgtta	actttcacaa	aggcaccccc	aaataccac	aacagaagtt	180
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tacatccact	aacaatcaat	ccaaacccac	cataaatagg	tgaaggcttc	aacgccaacc	180
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cagtgtctgc	tcaggattca	gtagaggatg	cacccaaggc	ttctggagag	cgtgtggtga	180
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gaagtaaatg ggaactgcct gaatgtctct tcataaacct aggaaataaa gccaggctca 180  
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gacaattcag taagatcacc aagaaaatca cctcgtttaa tggcacaaga acaagtaaga 180  
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gcaagaacca aatgcactgt gatgtggcac caactaatta gcaagcatga ctttttcacc 180  
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aaatggaagt gctgt 255

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 cttcagatga gctgctccgg tggatccgcc catcactctt catactgtgg aaagtcttct 180  
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agaagaagga ggagg 255

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ttggtcaciaa gttgatagtt gttacatatt agtttccatt totccattag aaaattaggt 180  
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 tgcaataagc cagtg 255

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 agcatagaat actgttagct acttccctaa acatttttagt ttctcaaagt gaaatgctgt 180

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ttgacgaata attgt 255

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tcaatgacac agatg 255

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aggagcagat tccac 255

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<212> DNA  
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<400> 566  
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tgagaatgac c 251

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gagtgagtga aatgg 255

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<211> 255  
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<213> Ratte

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<213> Ratte

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ctactttgca tgaatacttc agacttgtat ttcagagcca agcagtaact aaaatgtgga 180  
ccttgctttt cagagataag agttortaat tatatgcctt taagtgtttc cttctaggct 240  
tcccaccaag tggtt 255

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<212> DNA  
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cttactagtt cttagccttca aaggaggttag accttgggtt tcatcctata aatttctgggt 120  
gggtgtgata acctataaat gtatgtttgt atggatatta tcaactaaat agcagtagaa 180  
atagagatcc aattccttta gtacctgccg gggcggccgc tcgaaagccg aattccagca 240  
cactggcggc cgtta 255

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<212> DNA  
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atatctgcag aattcggtt agcgttggtc cggccgaggt actaatcagc cttgaacatg 120  
gtttacagct ttctccttcc gacgagttct tttcagagaa gaaatcagtt ttgatctttt 180  
atagtccgtg cttgttgaaa acaagctttt tctttccccc aatgatgacg cttcattttt 240  
gaagtgtga agctg 255

<210> 584  
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<212> DNA  
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<400> 584  
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gcgtgggtgc gcgcgaggtt caagcttttt tttttttttt tttttttttt ttttttagga 180  
tcacagatac nctgtttatt caaataaagc aagggaataa aagggcgnot ttcttaaaact 240  
ctntntatctt aacag 255

<210> 585  
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agcggccgccc cgggcaggtt cttaaattgtt agttcttgaa gtctaactct gtgctaacag 180  
atcttcattt taaatagaat acgggttttaa tttttgataa gctgctgaat tttaaagaga 240  
gttttttggg gccac 255

<210> 586  
<211> 255  
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<400> 586  
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aggctcacggg tacatgtcat ggcttaggaa aatactggca ttctggtttc tgtgaaataa 180  
gccttacctt gtgcattcaa gcaaaaaggga aaaacaggca aaagaaaaaa gggggatggg 240  
gagaaaagcac tgtcg 255

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<400> 587  
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 gccctctaga tgcattgctcg agcgcccgcc agtgtgatgg atatctgcag aattcggttt 180  
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 acagaatcat attaa 255

<210> 588  
 <211> 255  
 <212> DNA  
 <213> Ratte

<400> 588  
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 atntctgcag aattcggttt tngagcgcc gccngggcag gtgcttcaga antcaccagg 180  
 acttcacttt taggaaaaac cttgtggcag ccaaggaccg gcacacacag atccaggagg 240  
 aactgcagac aaatg 255

<210> 589  
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<400> 589  
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 tgcttcagaa ctcaccagga cttcactttt aggaaaaacc ttgtggcagc caaggaccgg 180  
 cacacacaga tccaggagga actgcagaca aatggagata caaacagtc cagggacagc 240  
 aacagtcacc ccatt 255

<210> 590  
 <211> 255  
 <212> DNA  
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<400> 590  
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 gtcttagacc ccagatactt tgtcactcat attacaaagt tgacataatt ggctaaaaatc 180  
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 tataagttaa aaata 255

<210> 591  
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<400> 591  
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 tccttgggtct gaccgacagg tgtcgtttt tcatcaacga cactgaggtt gcatacaata 180  
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aaccttataa tgaagatg ccttgccctt cgcaccccc acccttagtga aaactattgc 240  
cttacacctt gtcac 255

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<213> Ratte

<400> 593  
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tactgctgag attactcagg caggtgagct gatgctggac acgaacccct cagtaaagtg 180  
cagtttttag caacccctta gttttccctt agacagggtat ccacagtcca taaggacttt 240  
ttttcttctc tattt 255

<210> 594  
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<212> DNA  
<213> Ratte

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agtgcacaca gacgtgcact cttctcatga ctgcaacagt gatcgggaag aggaaaacct 180  
tcaactctgc ctttggtctt gtgaactaat ttcagttcag attctaagct gtgctcactc 240  
ccattttgaa a 251

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<400> 595  
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atcattgcaa aggcgtgga aatactctgc taggcacttc tctaccatct caagagccac 180  
tttctccacg ggcattctag tatggaaact gaagagcttc acatagtggc tcagtccggc 240  
cttgtagggg tcttg 255

<210> 596  
<211> 255  
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<400> 596  
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ttgcacaaaa tggcctgaaa gtgtaaaaaa cactagattt ttctttaaaa gctaatttgg 180  
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aggatacagt tttgc 255

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aggttttaagt tcagttgcat ctgatttoga ggaaacatga ataaaaattg attagatttc 180  
gtaattacat gggtatttat tttgaacgca catgttaatg tatgcttgc tactgattga 240  
gcatttatga gccga 255

<210> 598

<211> 255  
<212> DNA  
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<400> 599  
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gtgcaggact tgtctgcagc agagaaactc actccaagag caagaagcca aagaaaggaa 120  
aacgaaagat gatgaagggg caacccctgt taagaggcgg cgagtggagc gtgatgagga 180  
gcacactgta gacagctgca ttggagacat aaagacagat gccagggacg tccctgacccc 240  
cactagcacc tcaga 255

<210> 599  
<211> 255  
<212> DNA  
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<400> 599  
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<211> 251  
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aactctttgt aagcacattt ccccaaaagt ccagtgttta gacgacagtg gcaataatgt 180  
attcattcta gtagtcagtg gtaaccaggc agcttgtata ggacattgat atttaccctg 240  
gttgctgtga a 251

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<211> 255  
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<400> 601  
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gccaagttaa aggcaagggt attgaatctt gatggaaact cagccctttc cacttttaggt 180  
ggttttttct cagcctccaa accatcatca ccaagagaag taaaagctga agagaaatca 240  
ccagttttcca ttaat 255

<210> 602  
<211> 147  
<212> DNA  
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<400> 602  
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tgcccgggcg gccgctcgag cctata 147

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<400> 603

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 aaataaaaaac aggaccagaa acagtgtctg tttgggtgct ggtgctcccc ccacccaca 180  
 gcaatgctga agtctgtcca tccagttcca agcaaatata gagcaattcc aaccaacacc 240  
 catctttgaa aaag 255

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 aggggtcttgt gcgtgtctac atgggttccac ctcttacttt ccaactgttt aaaaaaaaca 180  
 aaaaagtcgc atatcccaag gcaacaaacc ccacagaatt cccgaaccaa tgggcgttgc 240  
 aaaaggaagt ggagc 255

<210> 605  
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<400> 605  
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 aacatgccga ccattctatgt gtgcactgac aagcttatgt taaaaacttt taagaatact 180  
 ctccccctta gattttttca aagcttttgt tttgattaca aaatttcaaa ggcattaagc 240  
 aattaagaga atata 255

<210> 606  
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 taagatagag agctggggcc cctccccccac cgtgtcatgg cacatgtcag agggagagag 180  
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 caggagatag gctaatactt aattagctta ttagccatgc catagtcccc tgactggaaa 180  
 tgggtacctt gcccatgcta aggttagatat gccaaagagc tgcccggctc tgccctgcca 240  
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tagcttctct atttggttgt caactacagg gaacagacta ggcccgggtga gcacagsggt 240  
gggagactgg agaaa 255

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<400> 610  
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gataaaaataa aataattatt aaaccataaa ataacccttt ccacttctaa tcttctgaaa 180  
gcaacaggca ctttgatgtg 200

<210> 611  
<211> 251  
<212> DNA  
<213> Ratte

<400> 611  
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<211> 255  
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<211> 255

<212> DNA

<213> Ratte

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<210> 616

<211> 251

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<213> Ratte

<400> 616  
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<211> 255

<212> DNA

<213> Ratte

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<210> 618

<211> 255

<212> DNA

<213> Ratte

<400> 618  
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tctcagctaa ctcaatacac agttttcttc acggttcaaa ccaaacagct ttcccatatc 180  
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gacacagaac tgaac 255

<210> 619

<211> 100

<212> DNA

<213> Ratte

<400> 619  
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<210> 620  
<211> 255  
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<400> 620  
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tataatattt atttaattgga atcacaggaa aatacaacta tagtttcaaa gcgcagttctg 180  
taaactaaca cactatatat gaaaaaacct ttaccttttt cccactccaa gagtggagctt 240  
taaggggctc aagag 255

<210> 621  
<211> 112  
<212> DNA  
<213> Ratte

<400> 621  
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<210> 622  
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<213> Ratte

<400> 622  
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taaatataawa maggctgttg arctgagctt cctgctgggt gacttttrta ctramttggg 240  
aagtaatgaa gga 253

<210> 623  
<211> 255  
<212> DNA  
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<400> 623  
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tatgggtggg tgttttatcg taatttaaaa ccaggcgaag ttggtagtag gcaaattttt 240  
aaaaagtgat agagt 255

<210> 624  
<211> 255  
<212> DNA  
<213> Ratte

<400> 624  
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agaggtggac actggtgcaa gakgcggcac agtgcagycg tctccatcca tcaactgtctg 180  
cagcattcac attgacacca aagtccagca gaaacttcac gatatgggtg tggccagcac 240  
agacagcatt gtgta 255

<210> 625  
<211> 255  
<212> DNA  
<213> Ratte

<400> 625  
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 aatatctcac tgcataagga ctgctagact gaacaatatc tyactgcata aggaccgcca 180  
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 gactgctaga ctgaa 255

<210> 626  
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 <212> DNA  
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<400> 626  
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 cagatgatat ggaagtccctc tggagactga agccacttgt cttagtctct tgagcaaatg 180  
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 cactgccagg tgtttctctg amtctccct cgatgtggtt cccwhnwggc agctgctgtg 180  
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 tatggtggga aacactaagg aacattggga tcttatgddc tgttgggtgc aatgatgctg 180  
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<400> 629  
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<212> DNA  
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agarattaga aaaatatgag ctttagagta gagacgagaa tctgtgggtt aaagcatgga 180  
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ataaaacttt cttttacacaa ctttagcaga ttaayygtaa ahttgatggg aataargttc 180  
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ctggttwgcy atcc 254

<210> 633  
<211> 255  
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<400> 633  
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gaaggcacgc agctn 255

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ccgcttanac gcctttcacc ttgggcaagn agaccaagga aggacacagc nacnactaca 180  
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<210> 637  
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<213> Ratte

<400> 637  
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aaccaaaaatc gtatagtant ccacctgntc cctncacatc tgtggaaaaga gtctaagcgt 180  
gacaccaag aacaccttac tggcttgccc tctgggnatag acacagactt gggcaaaagca 240  
accttggctg gacat 255

<210> 638  
<211> 255  
<212> DNA  
<213> Ratte

<400> 638  
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gtggacactc ggggggtggg ggcttgcan gaacacaggt atttccagat agtgtcagct 180  
tatttgaaaa ttaattttct ttgttaaaaa taactatatt aacctttgag tggcttcttt 240  
ttaaaccaaa aaact 255

<210> 639  
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<400> 639  
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gctgctggct tggncctntnc acaccagcgg ncttnacct 219

<210> 640  
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<210> 641  
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<400> 641

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<210> 642  
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 ctttgtcagg aaacaaggct gacttagcaa ataaaagagc tgttgacttc caggaagcac 180  
 agtcctatgc agatgacaac agcttattat ttatggagac atcagctaag acatcaatga 240  
 atgtaaatga aatat 255

<210> 643  
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<400> 643  
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 agggccgcta cagcctgcct ggctctgttg accactttcc cagcctgaga gacctcatga 180  
 accacctcaa gaagcagatc ctgcgcacgg acaatataag ctttgtgctg aaacgctgct 240  
 gtcagcctaa gcttc 255

<210> 644  
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 <212> DNA  
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<400> 644  
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<210> 645  
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 <212> DNA  
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<400> 645  
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 gatcacaggg aaaatggaga tgggatttag gttttgaagg actgtagcaa aatgtcaagg 180  
 tctcagaga aagggagttt gttttgtaag ttaattaaaa gttgcctgct ctgtaattgc 240  
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<210> 646  
 <211> 255  
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<400> 646  
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 attctgatat tgtaaaaaat atcagtgcta acatcttccg gacacttctt ccaagtgata 180  
 acccagactt tgaccgggaa gaggatgagc ccacacttga ggctctctgg ctccatata 240  
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<210> 647  
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<212> DNA  
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<400> 647  
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attttggaac agccaaagna ttatccccag acagcaaaca agctagagcc aattcatttg 120  
taggaacagc gcagtat 137

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ctcattggac acatcaacta ccaagttgtc atcactcttc ccaccatcac tgtcatagcg 180  
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gggtgtaaaag attgtgtgtc catccaacag ggagccacag tatttaaatt gaccaacctg 180  
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ttgtataact taagc 255

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ccagggcccg agtcaacgat aaatagaagg cacagtgttg cttgggtttg tcatcagatt 120  
tgggggtttgt tttctcgttg gaattttttg tctttttttc ttttttcttt ttttttcttt 180  
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caacaaaagt cttta 255

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gcatctgtct tctcatctc acccagctgc gttactatga ccaccgagt gacacagaat 180  
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gtgccccctaa gactg 255

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tgtcgttgta aaaactcaaa tacagtttgc tgcaaagttc ccaactgtctc cccaaggaac 180  
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 cccccccacc cccct 255

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 ccaagagtgt ccagtgcctg gcagagcccg ggcgccaaagg ttgccagagg aagggggcag 180  
 cagccgggca gaggactctt cagagggcca tgaggaggaa gt 222

<210> 655  
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<400> 655  
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 agaaacaagg gatagtagat ttgattccaa agaaaagctg aaggaagaga aggttgtctc 240  
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 <212> DNA  
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 agagagtagg aggta 255

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<213> Ratte

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aaagagtagc agcagcagtg gtgacccctc ctccgacccc ctagggttctc ccacactcct 180  
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<211> 255

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<210> 661

<211> 85

<212> DNA

<213> Ratte

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<210> 662

<211> 255

<212> DNA

<213> Ratte

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cctcctaaaa caaaagttaa caattgttaa agccacagta tctttttaat tgctaataat 240  
caacctttct tttcc 255

<210> 665  
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tccaatgtgn acc 253

<210> 666  
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<212> DNA  
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<400> 666  
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tggagtaagg catgctgttc ggggtctaata ggaggaagat gctgagccca tctttgaaga 240  
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atgagttcaa agtca 255

<210> 668  
<211> 243  
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<400> 668  
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aaggagggca ggtattcttg ctgaagatac tgaacacatt cggggccccc tttgagatga 240  
att 243

<210> 669

<211> 255  
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ggaacagagt tgtttccttc ctgaatttca aagataagac tgctgcagtc gcatcacaat 180  
attcagtggt gaaatcttga ttgttactgt cattcccat cttttcgttt agaatcagaa 240  
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tttctgacat tggca 255

<210> 671  
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ngtacct 127

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gccccctcca cttgctgtaa gtcacttgag agtccaatca cccggttggg gctaaaaacat 180  
gtcttcatga tgaggtcaac tccaatgcgc tcagtgtcat aatacgcata cttcactgtg 240  
agaggggtga acatc 255

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aagaccttct acaaagngcc aagaaaaaga gcattcacat cattttggac ctcactccca 180  
actataaggg ccagaatgca tggttcctcc ctccctcaggc tgacattgta gccacccaaa 240  
tgaaggaggc tctga 255

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<400> 674  
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 tatgactctg acgactcggc cgctttgcac acagcttacg gctacgcccc ggtgctgtcg 240  
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<400> 675  
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 caaccagaag agctctggac gatgctggat cttttcttgt ttgaatgta tgagacttcc 180  
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 ccggaaaggc cggcactgac atccaggaca acaaatgcag ctggctgggtg gttcaagtgt 180  
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 ccccggaata acaaaacaac cttatgatta gacacttaag acctcgattt tttgcttaac 180  
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tgggagtcgt gttcttcaag agcgatggca tcattccatt cgcccatgcc atctggcacc 180  
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<210> 681

<211> 255

<212> DNA

<213> Ratte

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tgtaagtaac cagaaagcag ggcaggcatt agctaaccga ggagactagc ttcttagatc 240  
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<210> 682

<211> 166

<212> DNA

<213> Ratte

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atatcaaaacc ctggagggtcc ttttttcagt atgacttttt ttatttttgt ttttttttat 180  
tttggtttttt aggttacttt gtcagaagca taacagggtg taagttgatt cataataaat 240  
acctgtccat cttca 255

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<211> 255

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aaacttagtc acaatgctat ttgatcttcc tctaggtctc aaggctgaaa atgttctcaa 180  
ttcgctttta acaataacaa ggctcttatt ctgaaatata gcaataccag cctataacca 240  
acagtgatcc taaaa 255

<210> 685

<211> 255

<212> DNA

<213> Ratte

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gattatttttt tgacaaaaca gggtagcaen agagcaggag atgggtgngg cgggacagtc 240  
cggctctgag agggga 255

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caccacagntt tttcccttnac caacatgcaa gttctttttcc ctntctgcca nccaggccag 240  
naggtgggag gcana 255

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ttagtgcctg acatcttctt agtggtttgt agaaaaatagg tttaaatctg aatattcaca 240  
gtgaaaagct gaaat 255

<210> 688  
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tcttgagaga ttttc 255

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<212> DNA  
<213> Ratte

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agatggcaaa tcaagtttgt cagaacaaat ttaccaccac cttcccaagg gaatttcata 180  
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gctntgngcg tntgcnacgn gaaccttgcn ttcgagatga atgcttaagg tgacaaggag 180  
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naagccaaga anacc 255

<210> 691

<211> 252  
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ggcaactgga ggcggttttaa ttggaaataa gcatttgaga taatgttaat agcagtgag 120  
aaaaatgaag ttaaaaaaaa aatcagtggt aagaagcctt ccgtccctgca ccttgctttt 180  
aattatctcc tccacagaga atgagcagaa ccttcctgta gtctccagaa gtgtcgccct 240  
tgataaaaga gt 252

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atgggcacca tgaacagaca gctgaaatta ccccagatcc agaagatcat gatggagttt 180  
gaacggcagg cagagatcat ggacatgaag gaagaaatga tgaatgatgc cattgatgat 240  
gcaatgggtg atgag 255

<210> 694  
<211> 255  
<212> DNA  
<213> Ratte

<400> 694  
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<210> 697  
 <211> 255  
 <212> DNA  
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 attccttttg ggaaa 255

<210> 698  
 <211> 245  
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 caggtctgca atcgagagg ccacgacacc agagaaagct tcttcaactg gttttccaac 180  
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 ccagt 245

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 <212> DNA  
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 <211> 194  
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actggttagcc ctgga 255

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gagatggctg ctcaa 255

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<210> 707  
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<400> 707



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agaaacgagc tgatg 255

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<210> 711  
 <211> 255  
 <212> DNA  
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caatgacgca gccatacttc aggtcccaga ggtgactggc cacctgacca cccaagaggc 240
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<210> 712  
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 <212> DNA  
 <213> Ratte

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agaatgtgga gcaca 255

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<210> 713  
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<210> 714

<211> 255

<212> DNA

<213> Ratte

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<210> 715

<211> 255

<212> DNA

<213> Ratte

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acaaatgaaa tttgaaggca cncacccan acctacatgt ctgggggcat ttttgtaaac 240  
cccccttaa agcnc 255

<210> 716

<211> 255

<212> DNA

<213> Ratte

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cacgatggct tccagggtgct catcttctgc ctgaggccca cagagctgca tgaagtctgg 180  
caaacgcaac aaggattcaa ggggtgtggc agagaagcct cggcaagcaa ggatctgtgt 240  
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<210> 717

<211> 255

<212> DNA

<213> Ratte

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agctgaaaaat tgacg 255

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<211> 255  
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<210> 738  
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 <213> Ratte

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<210> 744  
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 <212> DNA  
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<400> 744  
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<210> 751  
<211> 255  
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 <213> Ratte

<400> 756  
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<210> 759  
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<212> DNA  
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<210> 761  
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<400> 761  
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<213> Ratte

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<212> DNA  
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nnnnangatt ttagngatnc gttgccttta ncgagatnng nttncntggg tcttannttg 240
naccggaatt ancca 255

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<210> 806  
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 <212> DNA  
 <213> Ratte

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anacnatatn acgaatggac gccttcaaaa atgtcccccac acagnccang gtggcctacc 120
ggnactgggt catntgtgcg gatattgtatc ctacagggtt gggtttctct ggagacccca 180
ctgggctgga aacaggcgtc tagaaacgca tctgtctggg cagctatgga tgaagtgacc 240
ttagagctgg gcacc 255

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<210> 807  
 <211> 255  
 <212> DNA  
 <213> Ratte

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<400> 807
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acgacgaaga aacccaaatc catagctgtc cagagatgac attttttctc agagtcagag 120
cacttaaat caccaaagt cagcagtcga ggcagctgga aggcacccca acttncaaac 180
tggatcccag agcggaagaa gttgaggggtg aagggtggcag acatggaaca gaagagcact 240
ttccacgtga gtccc 255

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<210> 808  
 <211> 255  
 <212> DNA  
 <213> Ratte

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<400> 808
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ccaatgcttn tggggcacaa tcagagcact ttatcaacct tcgagaggtc agtaaccgca 120
tncgcctgcc gccgggggag tatatagtgg tgccctccac cttcgagccc aacaaagagg 180
gtgactttct gctgcgcttc ttttcagaga agaaggctgg gaccaggaa ctagatgacc 240
agatncaggc caacc 255

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<210> 809  
 <211> 255  
 <212> DNA  
 <213> Ratte

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<400> 809
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ggagcatctg ctgccacaca taagacacac ccagctctct ctacacagatc ctatcctgtg 120
ggtgttgaga gcagaggagc agctacaaga atcagtattg tgggtcattc cagtgtttat 180
tgtaaaatgc aagtgagtgc catctaaccc catgattcta atgtctgctg aacgaccaga 240
caggcatat cccag 255

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<210> 810  
 <211> 255  
 <212> DNA  
 <213> Ratte

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<400> 810
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ngggcngaca tcacaggnc cttccngggg ccccactggc cagctgnaga gagcacaggc 120
tactacgtca ggctgtgtga gggttttnt tgcctgcttn ccttngnntn ataaganctg 180
gacnanaggn ncnncnnagn nngntaaaga aactggntna nngnctcga accaangctn 240

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aaattgngcn tntga

<210> 811  
<211> 255  
<212> DNA  
<213> Ratte

<400> 811  
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gggcttcttg gctggntgca ggtttctggg ttaactgggt tctgggctgg ctgggtgtct 180  
gttatcactt gatagaaaga atagaaaatg tttctactct taccctgcta gogttgagta 240  
gtgttaaatc ctata 255

<210> 812  
<211> 255  
<212> DNA  
<213> Ratte

<400> 812  
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ccaccatatt gnccctatct ccgnccctctg natgctgaca caatcacatg atgaatcagg 180  
acggctgtaa gagctgnatc tgataacttc agnagnaaca acaatgngtt atatttggat 240  
ttttattaaa tcaag 255

<210> 813  
<211> 175  
<212> DNA  
<213> Ratte

<400> 813  
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aaacagtcac gcagacgggt tctgggtttt ctcacagggt gtaagggtcca ggctgtccat 120  
tcagggtggag agggataaaag gagaagatgt ggtcacttct gtgtgctaag gacgt 175

<210> 814  
<211> 255  
<212> DNA  
<213> Ratte

<400> 814  
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gaataatggg nggntctatc tactggacan cngtgactta tggagcagtg acngngatgc 180  
aggttgtagg ccataaaaga nggctggang ttatggagcc gagctgaccc tttatttctt 240  
ttgattggac ttcct 255

<210> 815  
<211> 255  
<212> DNA  
<213> Ratte

<400> 815  
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ctcctgacct cagctaagcg acaaggagat cattacatcc tcaacggctc caaggccttc 120  
atcagtgggg gaggtgagtc agacgtctat gtggtcatgt gcagaactgg tggatcaggc 180  
cccaaaggta tctcctgcat agttgttgag aaaggaaacc ctggcctcag ctttggcaag 240  
aaggagaaga aggtg 255

<210> 816  
<211> 255  
<212> DNA  
<213> Ratte

<400> 816  
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 agcatcaatt aagaaaggcc caagagtagg atgctgttcc ttttaaaata attttaaata 120  
 tattaacttt cctaaggcag attttgtgtg aggcgtgttg aataggtagc tgctaccgct 180  
 gccaaagaac ggtgcttggg aggggctgtc tgttctgggc agttggagt cggagggtaaa 240  
 tccctgtagg tcaag 255

<210> 817  
 <211> 255  
 <212> DNA  
 <213> Ratte

<400> 817  
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 gtggccctgg ctaccaagcc cctgacagcc cgttaccagg aggatgggtg ttttgacttt 180  
 cttcaactca aaccagtgcg gttgacacag tggctgctgg ttcactgtcc catgaaactg 240  
 cttctggtgt ggtgc 255

<210> 818  
 <211> 255  
 <212> DNA  
 <213> Ratte

<400> 818  
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 gagctgctct cctgaagcac gagctccaca ccgcttgggt ggagaggagc ctccgggtcc 120  
 tctgagagct tctcctcacc ctctcctatga atgggagatg atggagaccg cagggtgctg 180  
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 ccagcaaggg gacaa 255

<210> 819  
 <211> 255  
 <212> DNA  
 <213> Ratte

<400> 819  
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 aaaaccccag tgctatcgcc aagcaagtga acaccgagcc tgtgaaaaga aacanactat 120  
 gttacaagcc ataccttaac tatttcagac nataaaaaaa aatgaacaga aacagaaaat 180  
 caaactttta tctcatgntc tttttcccta gaaaattaaa ctaagaataa aaggcatttg 240  
 taaaggcaat angnt 255

<210> 820  
 <211> 255  
 <212> DNA  
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<400> 820  
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 actaccttga aaaatgctac cagaaactat gtcgggtgtg ataacgagt tttaaactctg 180  
 ctaaaaagag cctgtcacat ttgccacagc ataaaaatca ccttgggtcaa ggacaggcac 240  
 atgagtgagg cctcg 255

<210> 821  
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 <212> DNA  
 <213> Ratte

<400> 821  
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ccgatggggc atcattgggt ggctcctgac aacatgcacg tccaatgttg ctgcctccaa 180  
 tgccaagctg gctttgtttt atgactgggt gttcttcagc ccagacaagg atagcattat 240  
 gaacatagag ccagc 255

<210> 822  
 <211> 255  
 <212> DNA  
 <213> Ratte

<400> 822  
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 gcttctggag gtgttacttg gtgtggccac aagctcataa gctggagaaa cccacctctg 120  
 gagatgtcag gtaggaagct gaactgttct ggcttcagct ggattcgaaa gtaagtctct 180  
 atagattgnt tctgtgagag actttctctt gcagtaggac gaccacggtt ggggttccag 240  
 gaccagaatg ccccc 255

<210> 823  
 <211> 255  
 <212> DNA  
 <213> Ratte

<400> 823  
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 tgcctctgtg actaggngct tctccannca tgaacccnna atntnchnag aagtngnna 120  
 nnatgnncnc gtnggagctc tgatgccnt ntttcaagnc ttcttcacca tangnatnat 180  
 actgttntcn gnnttcacta tctgacagaa cctcataagc agcaccana tctgtgaatt 240  
 gtctcctggg ctagg 255

<210> 824  
 <211> 255  
 <212> DNA  
 <213> Ratte

<400> 824  
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 ttgggactgn gatctccaga acctgctaatt ctcagattct cctctggagt ttctccaggg 180  
 ctcagcctcc atttctgagc ctcagctggg ctggaatcca ngctctctggc ctctgtctggg 240  
 ctctgcctcc agtct 255

<210> 825  
 <211> 255  
 <212> DNA  
 <213> Ratte

<400> 825  
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 gctatcattg agcatgttcg agacggcagt gtgggtccggg ccttgctcct tccggatcac 120  
 taccttgtaa ccgtcatgtt gtcagggatt aagtgcctaa cctttcgtcg agaaacagat 180  
 ggtagtgaac caccagagcc ctctgctgca gaagccaagt ttttcacgga gtctcgactg 240  
 cttcagagag atgtt 255

<210> 826  
 <211> 255  
 <212> DNA  
 <213> Ratte

<400> 826  
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 ttgggactgn gatctccaga acctgctaatt ctcagattct cctctggagn ttcttcaggg 180  
 ctanacctcc atttctgagc ctcanctggg ctggaatcaa ggnctctggg ctctgntngg 240  
 ctttggcctc cagtc 255

<210> 827  
<211> 255  
<212> DNA  
<213> Ratte

<400> 827  
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gcaaaaaacc aaaaagcaaa caaacaaaaa ccagctttca gcattacatt ctgggaaact 120  
gaagtgtctg atcttattca aagtttttagt tctctttttt agttactaca atactgataa 180  
acaggatata ctttatatgg atcagatagc caggatataa ttcttgtaig tgaataacttt 240  
cattaaagca aaaga 255

<210> 828  
<211> 255  
<212> DNA  
<213> Ratte

<400> 828  
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tcagacaaaag actgctatac ccactgctgc agatcgtgtg caagggcctg gatgacccct 120  
cacagggtgt tcgaaatgct gctctgtttg ccttggggcca gttttcagag aacttacagc 180  
cccatatcag cagctattcc gaggaggttaa tgcccttgc ccttacctac ctgaagtcaa 240  
gtgcctatgg gaaac 255

<210> 829  
<211> 255  
<212> DNA  
<213> Ratte

<400> 829  
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nacnannccc ttnnnnntc ncacctnanc cacnctgat cntctncact ncngatnate 120  
ncgtgccttg ncnctgaggt cncctcanna gttntacgta atnctcctct nnttgcccn 180  
gaaccacctn ttcagantac ttnnncncn atatcntcan ctattcccnt gtnggtaant 240  
gnccctgctt cnta 255

<210> 830  
<211> 255  
<212> DNA  
<213> Ratte

<400> 830  
accatgtccc agagagcacc ttgggtttgt tcatttttta tgagttaaatt cagattttct 60  
taatcaggaa ggctccttgg gaccttcata gtaagctgaa gctgctcttc tctcacctg 120  
agtgttgatt tcaggtoaatt ggccggcacc ctcccttccc tcttactgtt gaagtctctg 180  
aacctgtggg tctcaagtgg agcggcacaa agccaaggca ccagcgcaat tcagtagcag 240  
gatatatcca tetta 255

<210> 831  
<211> 255  
<212> DNA  
<213> Ratte

<400> 831  
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tcaatttatt aaaaaaagng taanatttca atctgttaan atttgacttg taagcttttt 120  
acacatttct attttttttca anatttaaaa aacncaagga aaatgaaana attttttttc 180  
canaccactt tatctgaatc actgaaatta aatgaagcct gnggcctana ctcagggggc 240  
taaatngttt ttga 255

<210> 832  
<211> 255  
<212> DNA  
<213> Ratte

<400> 832  
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 aaaacgcgga tcagagcctc atcaggaagt ggatcgccga cctgccttcc atgcagctca 120  
 acaggattct agacctgctg ttcattctgt tctcctgctt tgaatacaag ggaaagcaga 180  
 gttctgacaa agtcagtaac caggctctgc agaagtcagg agatgtcaag gccaaagtgg 240  
 aagaagccct gctcc 255

<210> 833  
 <211> 255  
 <212> DNA  
 <213> Ratte

<400> 833  
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 ccacactgat gcttgggtct atctcaccct tgtcccgagc acctctctat cgactgccat 120  
 gcttttagatc taagtgaata atggcctttt agtaaatctc caattctgnt tcacattgtc 180  
 tgtccatgaa attcttttct ctgtcaaaagc cgaaggctct agtgccctcg tctgcgttgc 240  
 ccacaaccgc gtgag 255

<210> 834  
 <211> 255  
 <212> DNA  
 <213> Ratte

<400> 834  
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 ttgggactgt gatctccaga acctgctaata ctcaagtctc cctctggagt ttctccagggt 180  
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 ctctgcttca gtctc 255

<210> 835  
 <211> 255  
 <212> DNA  
 <213> Ratte

<400> 835  
 acctcgagga aaagttctcc ttnagctggc anngetccct gcacnggtgt cttttgattt 60  
 cattcttctt ttntaatnca cgctaaatga ccacctctat tgatagagac ctgccccttc 120  
 agtctgttcc ttaggactgn ntaancatcc aggctatgcc tgccagagcc tacatgntca 180  
 ggctgntctg gaatgagcac ccagctctgg cccagctccct gaatcatgtg gcctgagggg 240  
 aagcactggc ctcca 255

<210> 836  
 <211> 255  
 <212> DNA  
 <213> Ratte

<400> 836  
 nccaaanaag ccnngagann tngctennat ctgcttgatc tntgntctgn tncannnngt 60  
 ggaccacgat gaacactcta attctgacag tgtccacact ggctatgagc ccactctnct 120  
 gctcgaggca ctnaatggac tacgggctgt ctcccagct atcccatcgg ctccctctca 180  
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 tggactcgat cgaat 255

<210> 837  
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 <212> DNA  
 <213> Ratte

<400> 837  
 acatgcattt gnnacagagc acccaccatt atcatcagac tttcctacaa ctaccgcctg 60  
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 gaaactgggt ctgttcaagc taacctcacn cccagtcacaa cngatgccag cctgagtcaa 180



gagaccccaan cttctcagcc tgactgctcc aatcagacgg aggctgcttc cagtcacaca 240  
gaagatacct ctgct 255

<210> 838  
<211> 255  
<212> DNA  
<213> Ratte

<400> 838  
aaatacgcag cttcttcaca ggtcggncat gcgaggcaat ccanggtggg aagtcgggta 60  
agtcttaatg ctgggntctg ntaaaactga aggactaagc aggcagttac cnaanttcng 120  
gcttgagcac tgnagagctt cacatttnc cgaatcactc anaaaagnat aacattccct 180  
ttttcttggg ttacttacag aatctggcca aaagctaagc tcacttttcc tgatgcttca 240  
ggcttctcac aggtt 255

<210> 839  
<211> 255  
<212> DNA  
<213> Ratte

<400> 839  
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tggaattcct gagac 255

<210> 840  
<211> 255  
<212> DNA  
<213> Ratte

<400> 840  
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ctagaacgga gatcaagtcc tggtaattta agagatcaga gccctaaggg aagagagtca 180  
ngagaagaga ggctaagtcc caggagaggcc agagatagga angctggncg ataggaggaa 240  
cccaaagagt caagt 255

<210> 841  
<211> 112  
<212> DNA  
<213> Ratte

<400> 841  
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aaagcanaaa ggtaaaggaa gaagagacac aagaggggan agacctgann gt 112

<210> 842  
<211> 255  
<212> DNA  
<213> Ratte

<400> 842  
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tcccgtgaat acattctcaa agcaggagat aaggcgggtg tggaagggtga gacgctgaac 120  
ctgtgcacag acacagcccc agacacctg gccacaaggg cagaggctcg agtagcagcc 180  
cgggtgcctg tgggtgatgg tgctttggna gcagctagac agtgaaagtc aggaaaggcc 240  
tcggnaaccac gtnac 255

<210> 843  
<211> 255  
<212> DNA

<213> Ratte

<400> 843  
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gagaccagaa actgcacagg gaatttttcc aaattttcaaa cgacttttgg aattcaacca 120  
agggaaagtgt cctttttgctg ctgcacagat tggaaactcc tttagaaatg agatctcgcc 180  
ccggtcttga ctgatccgag tcagggaatt cacaatggca gagatcgagc actttgtaga 240  
tcccactgag aaaga 255

<210> 844

<211> 255

<212> DNA

<213> Ratte

<400> 844  
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ataccccana aggccaggaa gccccagata gggatgaggt atacacaatc cccaactctc 180  
tgaagcgaag tgagtcacca cagctgactc agatgctttg tcattgcatg aacagcctca 240  
gcagattgccc atcaa 255

<210> 845

<211> 255

<212> DNA

<213> Ratte

<400> 845  
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tctctggaag ctgtgggagc agcctctgag gcaactagctc ctgatgaagt tccacggata 180  
ggggccacca tatgggctgc ctttgccctca gctctattgn cgagtagcca actctgagtg 240  
cctgctttcc catat 255

<210> 846

<211> 255

<212> DNA

<213> Ratte

<400> 846  
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acnccaaaacc tanagntgaa atctcaccgt tatttccatg ctgtcnngaa cagngacaaa 120  
gntaaccnngn ngctncattc ngncancaga cctaannntt tacagctaac ttactttnac 180  
agnnntngat naaatagntn ccnnntacaa tgnmcaaggc ttttagtcnc taaggaattt 240  
aaatggnatc ttgaa 255

<210> 847

<211> 255

<212> DNA

<213> Ratte

<400> 847  
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atttgttttc aatcatggag gtcacggaca ttctcacggc tctggccatg gacacagtca 120  
ttccctcttt aatggtgctc tagatcacag ccattggccat gaagaccatt gccatagtca 180  
cggagccaaa catggaggtg cacacagcca tgaccatgac catgctcatg gacatgggca 240  
cttgcatccc cacga 255

<210> 848

<211> 255

<212> DNA

<213> Ratte

<400> 848  
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ggggcccagg ctggctgntg actctcangg gctgcatggg ctgacaaatg atagngaggg 120  
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<400> 850  
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<210> 852  
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<210> 854  
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<212> DNA  
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tcagaagtca taggtgatgg caatcagatt gaggttgaaa tccctccgac cagagccgat 180  
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aaaacgggtc tgctt 255

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<400> 856  
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<210> 857  
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<212> DNA  
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ngagatccaa atacagnatt caaaggtaat tggncagtg gtgcctggng aggaggaagg 180  
ggatgatact ccagggntag ccattctcct tcgggggtgt gt 222

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<400> 858  
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<210> 859  
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<212> DNA  
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 gagagtgact ctaggcagat cttttacttc ttgtgcttga atctgctctt caccctttgtg 180  
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<210> 860  
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<210> 861  
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 <212> DNA  
 <213> Ratte

<400> 861  
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 ctcnacaata ganctgaagc acaggcanc ccatatgggtg cccctatccg nggaacttna 120  
 ttaggancta gngcctnana anctgctncc acagattnca nanagggcct agctgaggnc 180  
 agngaaacac aaggcanggg cctgaagcg gngctgncaa aagcctcnga agctaccgtn 240  
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<210> 862  
 <211> 153  
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<400> 862  
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 ggactccttg ctatcggccc ttgcttccct cct 153

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<400> 863  
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<210> 865  
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cctggaagga gggatgggtc aggagtcc 209

<210> 866  
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<212> DNA  
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<400> 866  
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<210> 867  
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<212> DNA  
<213> Ratte

<400> 867  
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ccaagtctct gtgcctgtg gtgcctaact acgacaacgt gcacctaacc taccacaaaag 180  
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ccaccatccg cagct 255

<210> 868  
<211> 255  
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<213> Ratte

<400> 868  
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acgagctgta gccagaactg tcaatactat cttctaaact acccctggcc agaaggtttc 180  
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acaaagctgt catca 255

<210> 869  
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<400> 869  
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caaaaatgac gcagg 255

<210> 870  
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<212> DNA  
<213> Ratte

<400> 870  
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gcaccgcatt gctgttctgg aagtaattta acacactcat aatgggtgcag ttcttgttgt 120  
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cagtataact ttcaatggcg atctgtaagt ccagaacctg gtgcagaatc tctttgttca 240  
atggaggccc gaagg 255

<210> 871  
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<400> 871  
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<210> 872  
<211> 255  
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<213> Ratte

<400> 872  
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agtaatacct gaata 255

<210> 873  
<211> 255  
<212> DNA  
<213> Ratte

<400> 873  
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tgttttaatt tggaaaggat aattggaagt taactgaaat aatggaagt gaatttatac 240  
ctgcatattt tatat 255

<210> 874  
<211> 238  
<212> DNA  
<213> Ratte

<400> 874  
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tcgtcaccaa ggacctaccc tagaccata agaagggcag ttgccactgg agctgctga 180  
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<210> 875  
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<212> DNA  
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<400> 875  
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tggagtcccc tagaaaatag catcatcnc gagccttnat cctnctngt tgggtggacc 180  
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aagctctgga tagtg 255

<210> 876  
<211> 255

<212> DNA  
<213> Ratte

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<210> 877  
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<400> 877  
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<210> 878  
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<212> DNA  
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<210> 879  
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<210> 880  
<211> 255  
<212> DNA  
<213> Ratte

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<210> 881  
<211> 254  
<212> DNA  
<213> Ratte



<400> 881

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<210> 882

<211> 255

<212> DNA

<213> Ratte

<400> 882

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<210> 883

<211> 255

<212> DNA

<213> Ratte

<400> 883

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<210> 884

<211> 255

<212> DNA

<213> Ratte

<400> 884

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gcccctctgag tttaaagaaac tsycctcacc ccgtgctggt cactcatggt tgtaaaaatt 240  
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<210> 885

<211> 220

<212> DNA

<213> Ratte

<400> 885

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gcgccatgag attgagggca ccgngcctcc gcagcachnh tgctctggcg caaggtgccc 180  
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